EXHIBIT B47

Case 3:16-md-02738-MAS-RLS Document 9733-21 Filed 05/07/19 Page 2 of 95 PageID: 35931 Sonal Singh, M.D., M.P.H.

	Page 1
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE DISTRICT OF NEW JERSEY
3	x
4	IN RE: JOHNSON & JOHNSON TALCUM
5	POWDER PRODUCTS MARKETING, SALES
6	PRACTICES, AND PRODUCTS MDL NO:
7	LIABILITY LITIGATION 16-2738 (FLW)(LHG)
8	x
9	THIS DOCUMENT RELATES TO
10	ALL CASES
11	x
12	
13	
14	VIDEOTAPED DEPOSITION UNDER ORAL EXAMINATION OF
15	SONAL SINGH, M.D., M.P.H.
16	January 16, 2019, 9:07 a.m.
17	
18	
19	REPORTED BY: JANET M. SAMBATARO, RMR, CRR, CLR
20	
21	GOLKOW LITIGATION SERVICES
22	877.370.3377 ph 917.591.5672 fax
23	deps@golkow.com
24	
25	

		1		
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1		1	APPEARANCES: (Continued)	
2		2	THILIM WELD. (Continued)	
3		3	TUCKER ELLIS	
4		4	BY: MICHAEL C. ZELLERS, ESQ.	
5		5	515 South Flower Street	
6	Deposition of SONAL SINGH, M.D., M.P.H.,	6	Los Angeles, California 90071	
7	held at the Beechwood Hotel, 363 Plantation Street,	7	(213) 430-3400	
8	Worcester, Massachusetts, pursuant to Agreement	8	michael.zellers@tuckerellis.com	
9	before Janet Sambataro, a Registered Merit Reporter,	9	Representing the Defendant, Johnson & Johnson,	
10	Certified Realtime Reporter, Certified LiveNote	10	Johnson & Johnson Consumer Companies, Inc.	
11	Reporter, and a Notary Public within and for the	11		
12	Commonwealth of Massachusetts, on January 16, 2019,	12		
13	commencing at 9:07 a.m.	13		
14		14	DRINKER BIDDLE AND REATH, LLP	
15		15	BY: KATHERINE MCBETH, ESQ.	
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17		17	Philadelphia, Pennsylvania 19103-6996	
18 19		18 19	(215) 988-2700 katherine.mcbeth@dbr.com	
20		20	Representing the Defendant, Johnson & Johnson,	
21		21	Johnson & Johnson Consumer Companies, Inc.	
22		22	Johnson & Johnson Consumer Companies, Inc.	
23		23		
24		24	- Continued -	
25		25	Commuca	
	Page 3			Page 5
1	APPEARANCES:	1	APPEARANCES: (Continued)	
2		2	GORDON & REES	
3	ASHCRAFT & GEREL, LLP	3	BY: MICHAEL R. KLATT, ESQUIRE	
4	BY: MICHELLE A. PARFITT, ESQ.	4	816 Congress Avenue, Suite 1510	
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7	(703) 931-5500	7	Representing the Defendants,	
8	mparfitt@ashcraftlaw.com	8	Imerys Talc America, Inc.	
9	Representing the Plaintiffs	9	COLICIII DI DIFETTI D	
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11			RV. NAADVANANA MARKEHA ESA	
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13	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street	12 13	350 Mount Kemble Avenue Morristown, New Jersey 07962	
14	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502	12 13 14	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058	
14 15	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000	12 13 14 15	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com	
14 15 16	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com	12 13 14 15 16	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058	
14 15 16 17	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000	12 13 14 15 16 17	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc.	
14 15 16 17 18	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs	12 13 14 15 16 17 18	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS	
14 15 16 17 18 19	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC	12 13 14 15 16 17 18 19	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ.	
14 15 16 17 18	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs	12 13 14 15 16 17 18	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive	
14 15 16 17 18 19 20	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ.	12 13 14 15 16 17 18 19 20	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ.	
14 15 16 17 18 19 20 21	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ. 130 Forest Street	12 13 14 15 16 17 18 19 20 21	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive Chicago, Illinois 60606	
14 15 16 17 18 19 20 21 22 23 24	BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street Pensacola, Florida 32502 (850) 435-7000 ctisi@levinlaw.com Representing the Plaintiffs RESTAINO LAW LLC BY: JOHN RESTAINO, ESQ. 130 Forest Street Denver, Colorado 80220 (303) 839-8000 JRestaino@RestainoLLC.com	12 13 14 15 16 17 18 19 20 21 22 23 24	350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 mmeseha@coughlinduffy.com Representing Imerys Talc America, Inc. TUCKER ELLIS BY: JAMES W. MIZGALA, ESQ. 233 South Wacker Drive Chicago, Illinois 60606 (312) 624-6300	
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1	APPEARANCES: (Continued)	1	EXHIBITS	
2	(30,000)	2	Number Description Page	
3	SEYFARTH SHAW LLP	3	Exhibit 11 Letter dated June 1, 2015 21	
4	BY: THOMAS T. LOCKE, ESQ.	4	Exhibit 12 Email string with top e-mail	
5	975 F Street, N.W.	5	dated December 27, 2018 23	
6	Washington, D.C. 20004	6	Exhibit 13 Invoices from Dr. Singh 25	
7	(202) 463-2400	7	Exhibit 14 Plaintiffs' Steering Committee's	
8	Representing PCPC	8	Response and Objections to the	
9		9	Notice of Oral and Videotaped	
10	ALSO PRESENT:	10	Deposition of Sonal Singh and	
11	Jody Urbati, Videographer	11	Duces Tecum 28	
12		12	Exhibit 15 Article entitled "Ovarian,	
13		13	Fallopian Tube, and Primary	
14		14	Peritoneal Cancer Prevention	
15		15	(PDQ) - Health Professional	
16		16	Version 89	
17		17	Exhibit 16 Document entitled "Health Canada	
18		18	Decision-Making Framework for	
19		19	Identifying, Assessing, and	
20		20	Managing Health Risks -	
21		21	August 1, 2000" 101	
22		22	Exhibit 17 Document entitled "Systematic	
23		23	Review and Meta-Analysis of the	
24		24	Association between Perineal Use	
25		25		
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5	By Mr. Klatt 301	5	Cancer" 109	
6	By Mr. Locke 337	6	Exhibit 18 Printout entitled "Ovarian	
7	EXHIBITS	7	Cancer: Risk Factors" 120	
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9	Exhibit 1 Notice of Oral and	9	Exhibit 20 IARC Classifications 133	
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11	Sonal Singh and Duces Tecum 13	11	talc and risk of ovarian cancer" 143	
12	Exhibit 2 Rule 26 Expert Report of	12	Exhibit 22 Article entitled "Genital use of	
13	Sonal Singh, MD, MPH 14	13	talc and risk of ovarian cancer:	
14	Exhibit 3 Sonal Singh, MD, MPH, FACP,	14	a meta-analysis" 157	
15	curriculum vitae 16	15	Exhibit 23 Article entitled "Perineal Talc	
16	Exhibit 4 List of references 17	16	Use and Ovarian Cancer, A Systematic	
17	Exhibit 5 Additional Materials and	17	Review and Meta-Analysis" 172	
18	Data Considered 17	18	Exhibit 24 Article entitled "The Association	
19	Exhibit 6 Updated Materials List 18	19	Between Talc Use and Ovarian Cancer,	
20	Exhibit 7 List of Trial Testimony 18	20	A Retrospective Case-Control Study	
21	Exhibit 8 List of Expert Deposition 19	21	in Two US States" 179	
22	Exhibit 9 Table 1 AMSTAR 20	22	Exhibit 25 Article entitled "Tubal Ligation	
23	Exhibit 10 Rule 26 Expert Report of	23	Induces Quiescence in the Epithelia	
24	Sonal Singh, MD, MPH, with	24	of the Fallopian Tube Fimbria" 206	
25	attachments 21	25	- Continued -	

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1	EXHIBITS	1	deposition as an expert for the plaintiffs in the	
2	Number Description Page	2	Talc MDL; is that correct?	
3	Exhibit 26 Article entitled "New Insights	3	A. Yes.	
4	into the Pathogenesis of Ovarian	4	Q. You are familiar with depositions?	
5	Cancer: Oxidative Stress" 228	5	A. Yes.	
6	Exhibit 27 Federal Register, Vol. 81,	6	Q. You've given a number of depositions in	
7	No. 243 233	7	your career?	
8	Exhibit 28 Document entitled "Interpretation	8	A. I don't know about a number. Yes, I	
9 10	of Epidemiologic Studies on Talc and Ovarian Cancer" 244	9 10	have.	
11	Exhibit 29 Article entitled "Association	11	Q. Can you estimate for us the number of depositions that you've given?	
12	between Body Powder Use and Ovarian	12	A. I think I've provided that list in the	
13	Cancer: The African American	13	last five years.	
14	Cancer Epidemiology Study (AACES) 261	14	Q. I understand. My question is a little	
15	Exhibit 30 Article entitled "Does Exposure to	15	different.	
16	Asbestos Cause Ovarian Cancer?	16	How many have you given in your career?	
17	A Systematic Literature Review and	17	A. I can't tell you in my career. Maybe	
18	Meta-analysis" 289	18	ten. Approximately.	
19	Exhibit 31 Article entitled "Occupational	19	Q. Have you ever testified at trial?	
20	Exposure to Asbestos and Ovarian	20	A. No.	
21	Cancer: A Meta-analysis" 293	21	Q. You understand today that I'm going to	
22	Exhibit 32 Chart 316	22	ask you a number of questions and other counsel	
23		23	may as well; correct?	
24		24	A. Yes.	
25		25	Q. Please don't answer any question that	
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1	Page 11	1	·	ge 13
1 2	PROCEEDINGS	1 2	you don't understand.	ge 13
2	PROCEEDINGS THE VIDEOGRAPHER: We are now on the	1 2 3	you don't understand. Can you do that?	ge 13
2 3	PROCEEDINGS THE VIDEOGRAPHER: We are now on the record. My name is Jody Urbati. I am a	3	you don't understand. Can you do that? A. Yes.	ge 13
2 3 4	PROCEEDINGS THE VIDEOGRAPHER: We are now on the record. My name is Jody Urbati. I am a videographer for Golkow Litigation Services.	3 4	you don't understand. Can you do that? A. Yes. Q. If you don't understand a question, let	ge 13
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		Page 14		Page 16
1	BY MR. ZELLERS:	1 450 17	1	A. Yes.
2	Q. Did you have an opportunity to review		2	Q. If at any time today you need to look
3	Deposition Exhibit 1 before today's deposition?		3	at any of those documents, they're available, and
4	A. Yes.		4	you're free to do that. Understood?
5	Q. Have you brought with you or provided		5	A. It is understood.
	to counsel for production all materials in your		6	Q. You had attached or provided with your
6	possession that are responsive to the Notice of		7	report a curriculum vitae, which I understand has
8	Deposition?		8	been updated; is that right?
9	A. I have.		9	A. Yes.
10	MR. ZELLERS: I will mark, as		9 10	
				MR. ZELLERS: We will mark your updated
11	Deposition Exhibit 2, your report in this matter		11	CV or curriculum vitae as Deposition Exhibit 3.
12	dated November 16 of 2018.		12	(Sonal Singh, MD, MPH, FACP,
13	(Rule 26 Expert Report of Sonal		13	curriculum vitae marked Exhibit 3.)
14	Singh, MD, MPH marked Exhibit 2.)		14	MR. ZELLERS: Folks, I believe that
15	BY MR. ZELLERS:		15	Ms. Parfitt has distributed to you, before the
16	Q. Is that correct?		16	deposition, Exhibit 3.
17	A. It is. It doesn't have the references.		17	BY MR. ZELLERS:
18	Q. Deposition Exhibit 2 is just a copy of		18	Q. Can you tell us, just briefly, in what
19	your report itself. It ends at Page 66.		19	respect has Exhibit 3 been updated from the CV
20	Attached to your report were some additional		20	that was produced with your report in this
21	materials; is that right?		21	matter?
22	A. Yeah. Yeah. I just want to make sure		22	A. A few publications, and then I was
23	because when I refer to the report, I understand		23	elected to the fellowship of the American College
24	it to include references and tables and so on.		24	of Physicians on January 1st. So I'm an FACP,
25	Q. Your report includes everything that		25	and, yes, just a couple of publications,
		Page 15		Page 17
1	was produced by plaintiffs' counsel as part of	Page 15	1	Page 17 presentations.
1 2	was produced by plaintiffs' counsel as part of that report; is that right?	Page 15	1 2	presentations.
2	that report; is that right?	Page 15	2	presentations. Q. Is the curriculum vitae that we have
		Page 15		presentations.
2 3 4	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments	Page 15	2 3 4	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date?
2 3	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay.	Page 15	2 3	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to
2 3 4 5	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just	Page 15	2 3 4 5	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes.
2 3 4 5 6 7	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report	Page 15	2 3 4 5 6 7	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah.
2 3 4 5 6	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah.	Page 15	2 3 4 5 6	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019?
2 3 4 5 6 7 8 9	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report	Page 15	2 3 4 5 6 7 8	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or
2 3 4 5 6 7 8 9	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2?	Page 15	2 3 4 5 6 7 8 9 10	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No.
2 3 4 5 6 7 8 9 10	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may,	Page 15	2 3 4 5 6 7 8 9 10 11	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is
2 3 4 5 6 7 8 9 10 11 12	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report,	Page 15	2 3 4 5 6 7 8 9 10 11 12	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And
2 3 4 5 6 7 8 9 10 11 12 13	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report	Page 15	2 3 4 5 6 7 8 9 10 11 12 13	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75.
2 3 4 5 6 7 8 9 10 11 12 13 14	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments.	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I	Page 15	2 3 4 5 6 7 8 9 10 11 12 13	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine.	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood.	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS:	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with two bankers boxes of your report, plus all of the	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered. (Additional Materials and Data
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with two bankers boxes of your report, plus all of the references from the report. Is that correct?	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered. (Additional Materials and Data Considered marked Exhibit 5.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with two bankers boxes of your report, plus all of the references from the report. Is that correct? A. Yes.	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered. (Additional Materials and Data Considered marked Exhibit 5.) BY MR. ZELLERS:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that report; is that right? And, Dr. Singh, I'm going to mark separately a number of the attachments A. Okay. Q to your report. Right now, I'm just trying to identify, is the body of your report A. Yeah. Q what we have identified and marked as Exhibit 2? MS. PARFITT: And if I may, Mr. Zellers, object. The body of the report, Dr. Singh may include as the body of the report plus all of its attachments. So just so the record is clear, but I understand how you'd like to conduct it, and that's fine. MR. ZELLERS: Understood. BY MR. ZELLERS: Q. Your counsel today has provided us with two bankers boxes of your report, plus all of the references from the report. Is that correct?	Page 15	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	presentations. Q. Is the curriculum vitae that we have marked as Deposition Exhibit 3 complete and up to date? A. Yes. Up to January 3rd. Yes. Q. Of 2019? A. 2019. Yeah. Q. Are there any further additions or corrections that need to be made to that CV? A. No. MR. ZELLERS: Deposition Exhibit 4 is the list of references from your report. And that goes from Page 67 to Page 75. Q. Is that correct? A. Yes. (List of references marked Exhibit 4.) MR. ZELLERS: Deposition Exhibit 5 is also from your report, and it's a listing of additional materials and data considered. (Additional Materials and Data Considered marked Exhibit 5.)

		Page 18			Page 20
1	MR. ZELLERS: Deposition Exhibit 6 is		1	testimony list, several additional documents that	
2	an updated list of materials that defendants were		2	counsel for plaintiffs has indicated are	
3	provided on January 13th of 2019.		3	responsive to the deposition notice.	
4	(Updated Materials List marked		4	Let me mark these. I have not had a chance	
5	Exhibit 6.)		5	to look at them yet substantively.	
6	BY MR. ZELLERS:		6	THE WITNESS: Sure.	
7	Q. Is that correct?		7	MR. ZELLERS: But I will and may, at a	
8	A. Yes.		8	later time today, have some questions for you.	
9	MR. ZELLERS: Folks, I need one more of		9	THE WITNESS: Actually, I will say	
10	those back. Can I get one more? Thank you.		10	there's a substantive document that's not here.	
11	Deposition Exhibit 7 is a listing of		11	That's the table of rating that I created for the	
12	the trial testimony and expert deposition		12	report, and that should be part of the report.	
13	testimony that you have provided in the last five		13	MR. ZELLERS: Let me see if I can find	
14	years.		14	that.	
15	(List of Trial Testimony marked		15	BY MR. ZELLERS:	
16	Exhibit 7.)		16	Q. It would be helpful to have that marked	
17	BY MR. ZELLERS:		17	as well; is that right?	
18	Q. Is that right?		18	A. Yes.	
19	A. Yes. Actually, I have provided them an		19	MR. ZELLERS: I will mark, as	
20	update, as well, of that. So I don't know if		20	Deposition Exhibit 9, the Amstar rating of	
21	that was with you, but		21	reviews, Pages 77 and 78 from your full report.	
22	Q. You have brought with you today an		22	(Table 1 AMSTAR marked	
23	updated list of expert deposition testimony for		23	Exhibit 9.)	
24	the last five years?		24	BY MR. ZELLERS:	
25	A. Yes. No. 7 is the update.		25	Q. Is that right?	
	•				
		Page 19			Page 21
1	MR 7FLLERS: We will mark the undated	Page 19	1	A Thank you	Page 21
1 2	MR. ZELLERS: We will mark the updated trial testimony list as Deposition Exhibit 8	Page 19	1 2	A. Thank you. MR TISI: That was No. 9?	Page 21
2	trial testimony list as Deposition Exhibit 8.	Page 19	2	MR. TISI: That was No. 9?	Page 21
2 3	trial testimony list as Deposition Exhibit 8. (List of Expert Deposition	Page 19	2 3	MR. TISI: That was No. 9? MR. ZELLERS: No. 9.	Page 21
2 3 4	trial testimony list as Deposition Exhibit 8. (List of Expert Deposition marked Exhibit 8.)	Page 19	2 3 4	MR. TISI: That was No. 9? MR. ZELLERS: No. 9. Let's go off the stenographic record.	Page 21
2 3 4 5	trial testimony list as Deposition Exhibit 8. (List of Expert Deposition marked Exhibit 8.) MR. ZELLERS: And I understand that's	Page 19	2 3 4 5	MR. TISI: That was No. 9? MR. ZELLERS: No. 9. Let's go off the stenographic record. You can keep the video going.	Page 21
2 3 4 5 6	trial testimony list as Deposition Exhibit 8. (List of Expert Deposition marked Exhibit 8.) MR. ZELLERS: And I understand that's out of order, but I premarked one other exhibit.	Page 19	2 3 4 5 6	MR. TISI: That was No. 9? MR. ZELLERS: No. 9. Let's go off the stenographic record. You can keep the video going. (Discussion off the stenographic record.)	Page 21
2 3 4 5	trial testimony list as Deposition Exhibit 8. (List of Expert Deposition marked Exhibit 8.) MR. ZELLERS: And I understand that's out of order, but I premarked one other exhibit. BY MR. ZELLERS:	Page 19	2 3 4 5	MR. TISI: That was No. 9? MR. ZELLERS: No. 9. Let's go off the stenographic record. You can keep the video going. (Discussion off the stenographic record.) MR. ZELLERS: Let's go back on the	Page 21
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	Page 2	,	Page 24	4
1	-		•	·
	marked Exhibit 11.)	$\frac{1}{2}$	A. Yes.	-
2	BY MR. ZELLERS:	2	MS. PARFITT: And for the record,	-
3	Q. The documents that were produced by	3	Mr. Zellers, and we can go ahead and redact the	-
4	counsel this morning, Deposition Exhibit 11, is a	4	copy later, but just so the record is clear, that	-
5	June 1st, 2015 letter with Janssen	5	communication at the top to me from Dr. Singh was	ı
6	Pharmaceuticals at the top to you from a	6	simply, we asked him, do you have any	ı
7	Dr. Zanca. Is that right?	7	communications, and then he sent it to me.	ı
8	A. Yes.	8	MR. TISI: We'll redact the part with	ı
9	Q. Is this inviting you to a program?	9	your agreement.	ı
10	A. Yes. Consultation for a panel on	10	MR. ZELLERS: Yes. We can do that at a	ı
11	products discussion manufactured by Johnson and	11	break	ı
12	Janssen Pharmaceuticals.	12	MS. PARFITT: At a break.	ı
13	Q. You're producing this in response to	13	MR. ZELLERS: or, you know, at the	ı
14	the request asking for all communications between	14	conclusion	ı
15	yourself and any Johnson & Johnson company; is	15	MS. PARFITT: I appreciate that. Thank	ı
16	that right?	16	you.	
17	A. That's what I understood it to be,	17	MR. ZELLERS: of the deposition.	
18	but yeah.	18	BY MR. ZELLERS:	
19	Q. You've gone and you've made a search,	19	Q. Do you strike that.	
20	and in the search for additional records	20	The date of your e-mail at the bottom of	
21	responsive to the Notice of Deposition, which we	21	Page 1 is December 13th of 2018; is that right?	
22	marked as Exhibit 1, you have brought these	22	A. Yes.	
23	additional documents that we're marking here; is	23	Q. You had been retained as an expert?	
24	that correct?	24	A. Yes.	
25	A. Well, I wouldn't say I made a search.	25	Q. And had submitted, in fact, your expert	
	D 2	,	D 25	1
	Page 2)	Page 25	,
1	I sort of read it, you know, decided, okay, what	1	report that we have marked previously; is that	
2	other additional things that are requested and,	2	right?	
3	you know, recalled that I had had this	3	A. Yes.	- 10
4	interaction with Johnson & Johnson amployees	1		
	interaction with Johnson & Johnson employees.	4	Q. In this communication, Exhibit 12, do	
5	Q. Are you comfortable that you have	5	you at all identify yourself as a paid, retained	
6	Q. Are you comfortable that you have brought with you today all of the documents that	5 6	you at all identify yourself as a paid, retained expert for the plaintiffs in the talc litigation?	
_	Q. Are you comfortable that you have	5	you at all identify yourself as a paid, retained	
6	Q. Are you comfortable that you have brought with you today all of the documents that are responsive to the Notice of Deposition? A. Yes.	5 6 7 8	you at all identify yourself as a paid, retained expert for the plaintiffs in the talc litigation? A. No. This was just a communication about references, and I did not.	
6 7	Q. Are you comfortable that you have brought with you today all of the documents that are responsive to the Notice of Deposition? A. Yes. (Email string with top e-mail	5 6 7	you at all identify yourself as a paid, retained expert for the plaintiffs in the talc litigation? A. No. This was just a communication about references, and I did not. MR. ZELLERS: Dr. Singh, the next set	
6 7 8	Q. Are you comfortable that you have brought with you today all of the documents that are responsive to the Notice of Deposition? A. Yes.	5 6 7 8	you at all identify yourself as a paid, retained expert for the plaintiffs in the talc litigation? A. No. This was just a communication about references, and I did not.	
6 7 8 9 10 11	Q. Are you comfortable that you have brought with you today all of the documents that are responsive to the Notice of Deposition? A. Yes. (Email string with top e-mail dated December 27, 2018 marked Exhibit 12.) MR. ZELLERS: All right.	5 6 7 8 9 10 11	you at all identify yourself as a paid, retained expert for the plaintiffs in the talc litigation? A. No. This was just a communication about references, and I did not. MR. ZELLERS: Dr. Singh, the next set	
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	Paga	16	Paga 28
1	Page substantively, the invoices.	1	Page 28 (Plaintiffs' Steering
$\frac{1}{2}$	A. Sure.	$\frac{1}{2}$	
2		$\frac{2}{3}$	Committee's Response and Objections to the
3	Q. And I don't think we have a complete		Notice of Oral and Videotaped Deposition of
4	copy. I'm going to ask you some questions in a	4	Sonal Singh and Duces Tecum marked Exhibit
5	bit.	5	14.)
6	A. We do have a complete copy. I mean, in	6	MR. ZELLERS: Back on the stenographic
7	terms of	7	record.
8	Q. No. I understand that Exhibit 13 is a	8	Dr. Singh, at the request of
9	complete copy of your invoices.	9	plaintiffs' counsel, we will mark and
10	A. Yeah.	10	incorporate, as an Exhibit 14, the objections
11	Q. That you now have the copy in front of	11	that plaintiffs have filed to the deposition
12	you. I don't have the copy in front of me. Keep	12	notice.
13	it. I'll have some questions for you a bit	13	MS. PARFITT: Thank you.
14	later.	14	BY MR. ZELLERS:
15	Have we now marked all documents that are	15	Q. Have we identified and marked all of
16	responsive to the Notice of Deposition which you	16	
17	have produced here today? And let me withdraw	17	the Notice of Deposition?
18	that.	18	A. We have.
19	Have we now marked all of the documents that	19	Q. To your knowledge, there are no
20	you have produced in response to the Notice of	20	additional documents that you have in your
21	Deposition?	21	possession to produce; is that right?
22	A. Yeah. And I think that, you know,	22	A. I don't have any additional documents.
23	there were some updated materials that I reviewed	23	Q. The report that we have marked as
24	that are part of this list.	24	Deposition Exhibit 10, does that contain all of
25	Q. All right. And we need to be more	25	the opinions that you intend to offer at trial?
	Page	27	Page 29
1	specific	1	A. Actually, it's Deposition Exhibit 2.
2	A. Sure.	2	Q. I understand.
3	Q as you understand from doing this	3	A. Sorry. I'm a little confused here.
4	before.	4	Q. That's fine. We don't want you to be
5	You are referring to the list of updated	5	confused. And I asked you in the beginning to
6	materials that was produced about a week ago?	6	tell me if you were getting confused.
7	A. Yeah.	7	We have marked Deposition Exhibit 10, which
8	Q. And that is Deposition Exhibit well,	8	contains all of the attachments
9	strike that.	9	A. Okay.
10	Just for the record, it was produced on	10	
11	January 13th of 2019. The updated materials that	11	that right?
12	you have reviewed are listed on Deposition	12	
13	Exhibit 6; is that right?	13	Q. All right. The substance of your
14	A. I have not reviewed these materials. I	14	report in terms of your written opinions, we have
15	was provided these materials. I have reviewed	15	marked separately as Exhibit 2; correct?
16	portions of these. I have not had a chance to	16	- · · · · · · · · · · · · · · · · · · ·
17	review all of these materials.	17	Q. Does that report, Exhibit 2, and also
18	Q. Anything else that you have responsive	18	marked as Exhibit 10, contain all of the opinions
19	to the deposition notice that we have not marked?	19	that you intend to offer at any trial or hearing
			in this matter?
	A. Give me a second. Let me read	- 1 / 1 /	III IIIIS IIIaliei !
20	A. Give me a second. Let me read. MS_PARFITT: If we can go off the	20	
20 21	MS. PARFITT: If we can go off the	21	A. Well, I mean, it's hard to say it
20 21 22	MS. PARFITT: If we can go off the stenographic record for one moment while he's	21 22	A. Well, I mean, it's hard to say it contains all the opinions because there have been
20 21 22 23	MS. PARFITT: If we can go off the stenographic record for one moment while he's doing it.	21 22 23	A. Well, I mean, it's hard to say it contains all the opinions because there have been some updates since then and, you know, science
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Sonal Singh, M.D., M.P.H.

	Page 3			Page 32
1	A. Science evolves, and, you know, we	1	that you intend to provide at any hearing or	
2	update our opinions. So it's not like you offer	2	trial in this matter?	
3	an updated opinion one day and that stays that	3	A. No. I'm relying on additional evidence	
4	way.	4	since then that has become available on this.	
5	Q. Dr. Singh, this is our opportunity to	5	Q. Let's I will ask you a new question.	
6	ask you questions about the opinions that you	6	Are all of the materials that you are	
7	have formed in this matter.	7	relying on in forming the opinions that you	
8	As of today, does your report, which we've	8	expect to testify to at any hearing or trial,	
9	marked as Exhibit 2 and also	9	identified either in your report, which we have	
10	MS. PARFITT: 10.	10	marked as Exhibit 10, or the updated list of	
11	Q Exhibit 10, does that include all	11	materials, which we have marked as Exhibit 6?	
12	of the opinions that you intend to testify to at	12	A. Yes.	
13	any trial or hearing of this matter?	13	MS. PARFITT: And 5.	
14	A. Yes. In terms of the causation	14	THE WITNESS: Okay. That's the part of	
15	opinions, it does. But in terms of what	15	the whole report.	
16	additional evidence has been reviewed or what	16	MR. ZELLERS: Yes.	
17	additional evidence has come up that, you know,	17	BY MR. ZELLERS:	
18	supports or refutes that, that might have	18	Q. Exhibit 5 had previously been produced	
19 20	changed.	19 20	as part of your report; is that right? A. Yes.	
21	Q. Dr. Singh, do you have any new or additional opinions today that you intend to	21	Q. Is your report accurate?	
22	offer at any trial or hearing of this matter	22	A. Yes.	
23	beyond the opinions that are included in your	23	Q. Is your report complete?	
24	report which we've marked as Exhibit 2 and	24	A. Yes, it is. It has some typos, but	
25	Exhibit 10?	25	Q. As we go along, if there's a typo	
23	Lanott 10.	23	Q. The we go along, it diele's a typo	
-		_		
	Page 3	1		Page 33
1	A. I'm sorry. I'm just not it's not	1 1	strike that.	Page 33
2	A. I'm sorry. I'm just not it's not like I don't want to answer. I'm trying to	1 2	Are there any typos that are substantive	Page 33
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2 3 4	A. I'm sorry. I'm just not it's not like I don't want to answer. I'm trying to understand. When you say "additional opinions," does it just mean like a causal opinion or does	1 2 3 4	Are there any typos that are substantive typos? A. No. But sometimes it's we and they. I	Page 33
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				26
	Page	4		ige 36
1	A. Yes.	1	you asked to do?	
2	Q. Anyone else?	2	A. So to clarify, I don't know I was	
3	A. No.	3	retained at that time.	
4	Q. What attorneys have you met with or	4	I was asked to consult on and provide, you	
5	communicated with in the talc ovarian cancer	5	know, a review and look at look at the	
6	litigation other than Ms. Parfitt and	6	literature on this topic. So I'm not sure	
7	Mr. Restaino?	7	depending on semantics, you can define it as	
8	A. So Attorney Chris Tisi, and then I have	8	being retained or, you know I don't think we	
9	communicated on the phone with Attorney Gates.	9	had an "agreement," but I was asked to provide a	
10	Is that no. Margaret?	10	consultation on that matter. And these invoices	
11	Q. Margaret Thompson?	11	include that consult.	
12	A. Thompson. Yeah.	12	Q. In the first part of 2017, what were	
13	Q. Do you know Margaret Thompson?	13	you asked by counsel for plaintiffs in the talc	
14	A. I mean, I know her as an attorney. I	14	litigation, ovarian cancer talc litigation, to	
15	just spoke to her on the phone for 30 minutes.	15	do?	
16	Q. Have you ever met in person with	16	MS. PARFITT: Objection. Limit your	
17	Ms. Thompson?	17	response to communications with regard to simply	
18	A. No.	18	the requests, not the conversations.	
19	Q. Have you ever had any communications or	19	A. Yeah. So I was asked to review, you	
20	interactions with Ms. Thompson other than the	20	know, the literature on talcum powder products	
21	30-minute-or-so phone call?	21	and ovarian cancer.	
22	A. No.	22	Q. Had you ever done that before?	
23	Q. When was that conversation with	23	MS. PARFITT: Objection. Form.	
24	Ms. Thompson?	24	A. I mean, when I say "review," yes, I had	
25	A. I don't know. A couple of days ago.	25	read about talcum powder products and ovarian	
	Page	5	Pa	nge 37
1	Page Vools			ige 37
1	Yeah.	1	cancer.	nge 37
2	Yeah. Q. It was in preparation for the	1 2	cancer. Q. You were asked to make a systematic	age 37
2 3	Yeah. Q. It was in preparation for the deposition; is that right?	1 2 3	cancer. Q. You were asked to make a systematic review of the literature relating to talcum	nge 37
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	Page 38			Page 40
1	asking the causal question that is the use of	1	that right?	
2	talcum powder products a cause of ovarian cancer.	2	A. Yes.	
3	Q. You looked at the literature	3	Q. How much are you charging per hour for	
4	A. Mm-hmm.	4	your time in this case?	
5	Q to try to determine if you could	5	A. \$600 an hour.	
6	answer that question; is that right?	6	Q. You have invoices in front of you.	
7	A. Yeah. So we looked at I looked at	7	What is the total value of the time that	
8	the literature and, you know, obviously, looked	8	you've spent on the talc ovarian cancer	
9	at other documents and performed a methodology,	9	litigation, whether that's been billed or not	
10	and we can discuss that in detail later.	10	billed, paid or not paid?	
11	But the primary question of interest is	11	A. I can't calculate the time. I can	
12	was, is the use of perineal use of talcum powder	12	calculate	
13	products associated with and causally related to	13	Q. Can you estimate it for us?	
14	the development of ovarian cancer.	14	A. I don't want to give a number that's	
15	Q. That has been the request from	15	inaccurate; right? I mean, these are accurate	
16	plaintiffs' counsel to you in terms of providing	16	numbers. But I will just have to sum it up	
17	expert opinions in this matter; is that right?	17	Q. Let's try to do this as quickly as we	
18	A. Yes.	18	can.	
19	Q. When were you first asked to prepare a	19	A. Yeah.	
20	report setting forth your opinions?	20	Q. The five invoices that you've marked	
21	A. Again, I can't recall the specific	21	or strike that that we have marked as	
22	timelines. I'm sorry. It's been a while.	22	Deposition Exhibit 13	
23	Q. Were you asked by plaintiffs to assume	23	A. Mm-hmm.	
24	any facts?	24	Q does that capture all of your time	
25	A. No. I mean, at that time, you know,	25	on the ovarian cancer talc litigation through	
	Page 39			Page 41
1	and even prior to that, I was reading the	1	November of last year?	
2	literature. I was, you know, agnostic to it.	2	A. Yes.	
3	And, yeah, I didn't in fact, I didn't	3	Q. Is there any additional time that you	
4	form an opinion on this topic until until the	4	have spent on the talcum powder litigation up	
5	very end of, you know, 2018.	5	through November of last year that's not	
6	Q. When you say you were "agnostic"	6	reflected in the invoices we've marked as	
7	A. Mm-hmm.	7	Exhibit 13?	
8	Q to this issue, whether or not	8	A. No.	
9	talcum powder products are associated with	9	Q. All right. First invoice, what is the	
10	ovarian cancer, do you mean that you had not	10	total?	
11	formally come up with or developed any opinions	11	A. 9,300.	
12	prior to becoming involved as an expert for	12	Q. The second invoice, total?	
13	plaintiffs?	13	A. Twenty, one, zero, zero.	
14	MS. PARFITT: Objection. Form.	14	Q. 21,000?	
15	A. Yeah. So my what I mean is I had	15	A. 20,100.	
16		16	Q. Next invoice, total?	
	not systematically reviewed the literature to			
17	form an opinion whether talcum powder products	17	A. 5,100.	
18	form an opinion whether talcum powder products is, so I had not done the processes required to,	17 18	Q. Next invoice, total?	
18 19	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion.	17 18 19	Q. Next invoice, total?A. 19,200.	
18 19 20	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and	17 18 19 20	Q. Next invoice, total?A. 19,200.Q. Last invoice, total?	
18 19 20 21	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right?	17 18 19 20 21	Q. Next invoice, total?A. 19,200.Q. Last invoice, total?A. 40,800.	
18 19 20 21 22	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right? A. Yes.	17 18 19 20 21 22	Q. Next invoice, total?A. 19,200.Q. Last invoice, total?A. 40,800.Q. Since November of 2018, can you	
18 19 20 21 22 23	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right? A. Yes. Q. Plaintiffs' counsel have paid you for	17 18 19 20 21 22 23	 Q. Next invoice, total? A. 19,200. Q. Last invoice, total? A. 40,800. Q. Since November of 2018, can you estimate for us the number of hours that you have 	
18 19 20 21 22	form an opinion whether talcum powder products is, so I had not done the processes required to, you know, develop an opinion. Q. All right. You have now done that and you're here to talk about it; is that right? A. Yes.	17 18 19 20 21 22	Q. Next invoice, total?A. 19,200.Q. Last invoice, total?A. 40,800.Q. Since November of 2018, can you	

		Page 42			Daga 44
1	1 414 I I d4	Page 42	1	A Ol	Page 44
1	hours that I spent with the lawyers, I don't		1 2	A. Okay.	- 1
2 3	know. Maybe I've spent 10, 15 hours on my own. Maybe more. I just don't have that exact number.		3	Q. What percentage of income is from consulting on litigation matters? Give us an	- 1
4	I'll have to look.		4	estimate.	- 1
5	Q. At some point, you will submit an		5	A. Okay. Yeah. Maybe 30 percent. I'm	- 1
6	invoice		6	doing my best to give you	- 1
7	A. Yes.		7	Q. Is that your you're here to be	- 1
8	Q for your time; is that right?		8	truthful; correct?	- 1
9	A. After today. Yeah.		9	A. Yeah.	- 1
10	Q. Have you been disclosed as an expert in		10	Q. Is 30 percent of your income from	- 1
11	any other talcum powder proceeding aside from		11	consulting on litigation matters, is that your	- 1
12	this case?		12	best estimate as you sit here today?	- 1
13	A. No.		13	MS. PARFITT: Objection. Some clarity	- 1
14	Q. What percent of your professional time		14	as to over what period of time?	- 1
15	do you currently spend performing work as a		15	A. Yeah. Over five years, I mean, that's	- 1
16	consultant?		16	my best estimate.	- 1
17	A. Yeah. It could be you know, varies.		17	Q. Is it a little bit more now?	- 1
18	It could be 20 to 30 percent of my time.		18	MS. PARFITT: Objection.	- 1
19	Sometimes 20 percent.		19	A. Well, over the last year, yes, but over	- 1
20	Q. Has that 20 to 30 percent of your		20	five.	- 1
21	professional time spent working as a consultant,		21	Q. Over the last year, what are you	- 1
22	has that been consistent for the past five, ten		22	working on? You're working on the talc	- 1
23	years?		23	litigation; is that right?	- 1
24	A. Yeah. So, actually, it's been less in		24	MS. PARFITT: Objection. Form.	- 1
25	the past, sometimes a little more, but, you know,		25	Q. Doctor, did you hear my question?	
		Page 43			Page 45
1	overall, I would average out, you know, sort of	Page 43	1	A. Yeah. Yeah.	Page 45
1 2	overall, I would average out, you know, sort of as I was preparing over the last five years, it	Page 43	1 2	A. Yeah. Yeah.Q. What other litigations are you serving	Page 45
	overall, I would average out, you know, sort of as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you	Page 43			Page 45
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2 3	as I was preparing over the last five years, it would probably be 15 to 20 percent, but, you know Q. Currently, though, best estimate is 20	Page 43	2 3	Q. What other litigations are you serving as an expert for?A. Viagra.Q. You're an expert for plaintiffs in	Page 45
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	Page 46		Page 4
1	to your knowledge, in the Tasigna cases; is that	1	A. I don't understand. Like, what is a
2	right?	2	personal injury? Is it like somebody MVA kind
3	A. Yes.	3	of case or
4	Q. How about the Rahmoeller versus Walmart	4	Q. Well, you've been involved in Lipitor.
5	litigation, is that still ongoing?	5	You have been involved in a number of other
6	A. That stopped, but, you know, it's been	6	litigations. Let me withdraw that question. Let
7	a year since I've heard anything, so I don't	7	me make it a little more precise.
8	know.	8	Have you ever been retained in a case
9 10	Q. You also provided testimony in a matter of Brufett versus Washington University.	9 10	involving cosmetic products? A. No.
11	Is that still ongoing?	11	Q. In the preparation of your report, did
12	A. That has ended.	12	you review the other expert reports provided by
13	Q. Is it fair to say that all of the cases	13	plaintiffs in this MDL litigation?
14	in which you have been retained in the past	14	A. I mean, other than those cited, I have
15	A. Sure.	15	not had a chance to review them.
16	Q as an expert for plaintiffs	16	Q. The updated materials list that you
17	involving a pharmaceutical company defendant have	17	have produced here today, which we've marked as
18	involved prescription medications?	18	Exhibit 6, it contains a number of expert reports
19	A. Yeah. Prescription medications, issues	19	from plaintiff experts in the MDL talcum powder
20	of systems. I mean, that's my area of research.	20	ovarian cancer litigation; is that right?
21	Q. How much of your work is for plaintiffs	21	A. Yes.
22	versus defense as a litigation consultant?	22	Q. What is Exhibit 6? It says "Updated
23	MS. PARFITT: Objection. Form.	23	materials."
24 25	A. Yeah. I mean, over the last ten years, I've provided opinions to both sides, but I have	24 25	Does that mean updated materials that you have reviewed and considered?
23	The provided opinions to both sides, but I have	23	nave reviewed and considered?
	Page 47		
	Tage 17		Page 4
1	not been, you know when you say how much of	1	A. They were provided to me at some point
2	not been, you know when you say how much of your work, is it time spent or	1 2	
	not been, you know when you say how much of your work, is it time spent or Q. In terms of time spent, most of your		A. They were provided to me at some point in time between November 15th, and I haven't even I have actually not reviewed any of the
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			1		
		Page 50			Page 52
1	Where is that listed?		1	Q. Did you review Talc Information Sheet,	
2	A. No. 2. No. 2.		2	Health Canada?	
3	Q. All right. You've reviewed Chen Up to		3	A. Yes.	
4	Date. You have reviewed the second reference,		4	Q. Talc Potential Risk of Lung Effects?	
5	Committee on the State of Science.		5	A. Yes.	
6	A. Yeah.		6	Q. Task Force on Science Risk Assessment?	
7	Q. Have you reviewed the Evolving		7	A. Yes.	
8	Paradigms and Research and Care?		8	Q. The Weed Reference?	
9	A. Yes.		9	A. Yes.	
10	Q. The Draft Screening Assessment, Talc		10	Q. And the Zervomanolakis citation?	
11	Health Canada?		11	A. Yes.	
12	A. Yes.		12	Q. Have we covered all of the materials	
13	Q. The EFSA Science Committee?		13	that you've reviewed on the updated materials	
14	A. Yes.		14	list? Is that right?	
15	Q. The EPA documents that are listed?		15	A. Yes.	
16	A. No.		16	Q. Have you communicated or had any	
17	Q. The FDA Ingredients Talc?		17	discussions with any of the other plaintiffs'	
18	A. No.		18	experts in the talc ovarian cancer litigation?	
19	Q. The Fadak Burnola citation?		19	A. No.	
20	A. Yes.		20	Q. Have you reviewed any deposition or	
21	Q. The Federal Register, Volume 81?		21	trial transcripts from prior talcum powder cases?	
22	A. Yes.		22	A. Not prior cases, but I reviewed the	
23	Q. Have you reviewed the Kemp hearing		23	deposition of Dr. Plunkett.	
24	opinion and order?		24	Q. Plunkett?	
25	A. I don't think so.		25	A. Plunkett.	
23	A. Tuon tumik so.		23	A. Hunkett.	
		Page 51			Page 53
1	O. The Keep Medal Information Piece	Page 51	1	O. Harris and an advantage described	Page 53
1	Q. The Keys Model Information Bias?	Page 51	1	Q. Have you reviewed any other depositions	Page 53
2	A. Yes.	Page 51	2	of experts that have been taken in the MDL	Page 53
2 3	A. Yes. Q. Kunz?	Page 51	2 3	of experts that have been taken in the MDL ovarian cancer talcum powder litigation?	Page 53
2 3 4	A. Yes. Q. Kunz? A. Yes.	Page 51	2 3 4	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No.	Page 53
2 3 4 5	A. Yes.Q. Kunz?A. Yes.Q. Official Journal of the European Union?	Page 51	2 3 4 5	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent	Page 53
2 3 4 5 6	A. Yes.Q. Kunz?A. Yes.Q. Official Journal of the European Union?A. No.	Page 51	2 3 4 5 6	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions?	Page 53
2 3 4 5 6 7	A. Yes.Q. Kunz?A. Yes.Q. Official Journal of the European Union?A. No.Q. Qiao, Q-I-A-O?	Page 51	2 3 4 5 6 7	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent	Page 53
2 3 4 5 6 7 8	 A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? A. No. 	Page 51	2 3 4 5 6 7 8	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent of these.	Page 53
2 3 4 5 6 7 8 9	 A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? A. No. Q. Risk Management Scope, Talc Health 	Page 51	2 3 4 5 6 7 8 9	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent of these. Q. As I understand it, what you did is you	Page 53
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? A. No. Q. Risk Management Scope, Talc Health Canada? A. No. Q. You have not reviewed any of the plaintiff expert reports submitted in this matter. Is that your testimony? A. Yeah. They were provided to me and, you know, I formed my opinion independent of them. Q. Have you reviewed any of the reports prepared and submitted by plaintiffs that are identified in your updated materials? A. No. Except if any of them were cited, that's the one that I reviewed it in. Q. Yup. Did you review Talc Canada Plain Language Summary?	Page 51	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent of these. Q. As I understand it, what you did is you were asked by plaintiffs to review and consider and form an opinion regarding the causal question. Is that right? A. Yes. Q. To do that, you went and you reviewed a number of different literature sources; is that right? MS. PARFITT: Objection. Misstates his opinion. He indicated he had reviewed some prioto that. MR. ZELLERS: Ms. Parfitt, just object, form. And let's not have speaking objections. MS. PARFITT: And you won't find that I will. I want to make sure we have an accurate record.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. Kunz? A. Yes. Q. Official Journal of the European Union? A. No. Q. Qiao, Q-I-A-O? A. No. Q. Risk Management Scope, Talc Health Canada? A. No. Q. You have not reviewed any of the plaintiff expert reports submitted in this matter. Is that your testimony? A. Yeah. They were provided to me and, you know, I formed my opinion independent of them. Q. Have you reviewed any of the reports prepared and submitted by plaintiffs that are identified in your updated materials? A. No. Except if any of them were cited, that's the one that I reviewed it in. Q. Yup. Did you review Talc Canada Plain 	Page 51	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of experts that have been taken in the MDL ovarian cancer talcum powder litigation? A. No. Q. Did you conduct any independent investigation to reach your opinions? A. I mean, I my opinion is independent of these. Q. As I understand it, what you did is you were asked by plaintiffs to review and consider and form an opinion regarding the causal question. Is that right? A. Yes. Q. To do that, you went and you reviewed a number of different literature sources; is that right? MS. PARFITT: Objection. Misstates his opinion. He indicated he had reviewed some priot to that. MR. ZELLERS: Ms. Parfitt, just object, form. And let's not have speaking objections. MS. PARFITT: And you won't find that I will. I want to make sure we have an accurate	

	<u>. </u>	D 54			D 56
		Page 54			Page 56
	recross, but I'm trying to clean it up.		1	not necessarily the ones who may have helped me	
2	BY MR. ZELLERS:		2	in printing articles.	
3	Q. Doctor, go ahead.A. I didn't get the question. Can you		3	Q. My question is: Who helped prepare	
4 5	repeat?		5	your report other than yourself? MS. PARFITT: Objection. Objection. I	
6	Q. Sure. The question is: You were asked		6	believe you've asked that. He's answered it.	
7	to form an opinion by plaintiffs. You went out		7	A. Okay. Let me answer.	
8	and you reviewed the literature.		8	Q. Sure. Go ahead, Doctor. Please	
9	You considered the literature and you		9	answer.	
10	formulated an opinion; is that right?		10	A. I prepared my report.	
11	A. Yes.		11	Q. I understand you prepared your report.	
12	MS. PARFITT: Objection.		12	My question is: Did anyone assist you in	
13	A. And it was an independent opinion.		13	preparing your report?	
14	Q. An independent opinion based upon your		14	MS. PARFITT: Objection.	
15	review of the literature; is that right?		15	A. No.	
16	A. Yeah. Based upon my review of the		16	Q. You were provided some materials by	
17	literature and the documents and, you know,		17	plaintiffs' counsel; is that right?	
18	whatever was available to me.		18	A. Yes.	
19	Q. And those all of those materials		19	Q. You reviewed some of those materials,	
20	that you reviewed, considered and relied upon		20	but not all of those materials; is that right?	
21	have been included in the exhibits that we've		21	A. Yes.	
22	marked in this deposition; is that right?		22	Q. In terms of the references, Exhibit 4.	
23	A. That is correct.		23	And that is identified as Pages 67 through 75 in	
24	Q. Was there anything that you asked		24	your full report that we marked as Exhibit 10.	
25	plaintiffs' counsel for to prepare your report		25	But looking at your references, Exhibit 4,	
		Page 55			Page 57
1	that you were not provided with?		1	some of these references were provided by counsel	
2	A. No.		2	for plaintiffs to you; is that right?	
3	Q. Did anyone assist you in the		3	MS. PARFITT: Objection.	
4	preparation of your report?		4	A. Yes.	
5	A. Well, I may have asked them to print,		5	Q. Some, you went out and found on your	
6	like, these things and, you know, I may have		6	own; is that right?	
7	asked my I had means to print some articles		7	A. Well, it's not that way. It's the	
8	when I was preparing that.		8	majority of the references, I would say	
9	Q. Do you have a staff?		9	95 percent of, are my own work, and, you know, I	
10	A. Yes.		10	had questions about the product and the	
11	Q. All right. Who is your staff?		11	mechanism, what additional documents were	
12	A. I have several staff. I have, you		12	available.	
13	know, three offices.		13	And that's a process. And documents were	
14	Q. So you have three offices?		14	provided, and they need to be cited and are	
15	A. Yes.		15	cited.	
16	Q. In those three offices, do you have		16	Q. Are you able to tell us, of the	
17	folks who help you?		17	references that you cite, Deposition Exhibit 4,	
18	A. Yeah.		18	which ones came from plaintiffs' counsel and	
19	MS. PARFITT: Objection to form.		19	which ones you came up with on your own?	
20	Q. Do you have folks who do research?		20	MS. PARFITT: Objection. Form.	
21	MS. PARFITT: Objection. Form.		21	A. Sure.	
22	A. So, I mean so I have a dual		22	Q. You could do that if we went through	
23	appointment in my research, and so I have		23	one by one?	
24 25	clinical staff and my research staff. I have people who work with me on projects. They are		24 25	A. Yeah.Q. Let me ask you the same question with	
	people who work with the on projects. They are		∠.>	Q. Let the ask you the same question with	

		Page 58		Dage	ge 60
1		1 age 36	1		ge 00
$\begin{array}{ c c }\hline 1\\ 2\end{array}$	respect to the additional materials and data considered, Exhibit 5.		1 2	additional materials and data considered, items that are listed in Exhibit 5?	
3	Do you see that?		3	A. By reviewed and considered, I mean,	
4	A. Yes.		4	have I read every word of it? No. I reviewed	
5	Q. What's the difference between		5	and considered.	
6	Exhibit 4, references, and Exhibit 5, additional		6	Q. Who prepared the additional materials	
7	materials and data considered?		7	and data considered list?	
8	A. So as I went about and did my, you		8	MS. PARFITT: Objection.	
9	know, systematic review and, you know, umbrella		9	A. I prepared the list, but I asked them	
10	review, I gathered all the materials and, you		10	also to help me with what materials they had	
11	know, I included studies and data that provided		11	sent.	
12	original data on the causal question that we		12	Q. The lawyers for plaintiffs; is that	
13	discussed.		13	right?	
14	Q. Doctor, my question was simply, what's		14	A. Yes.	
15	the difference between references and additional		15	Q. So in your documents, you do have a	
16	materials and data considered?		16	listing of the materials that were provided to	
17	A. So the additional materials are those		17	you by plaintiffs' counsel for consideration; is	
18	that were, I would say, you know, reviewed, were		18	that right?	
19 20	still reviewed in forming the opinion, but they are not they don't they don't form the		19 20	MR. LOCKE: Objection. Misstates the testimony.	
21	basis of my opinion.		21	A. I'm sorry. Can you repeat?	
22	Q. The materials that you relied on in		22	Q. Sure. The question is: You do have,	
23	forming your opinion are what you've set forth as		23	because you requested it, a listing of the	
24	your references, Exhibit 4; is that right?		24	documents and materials that were provided to you	
25	MS. PARFITT: Objection.		25	by plaintiffs' counsel for you to consider;	
		Page 59		Page	ge 61
1	A. Yeah. I mean, and then things that,	Page 59	1	Page correct?	ge 61
1 2	A. Yeah. I mean, and then things that, you know obviously, for the report, it is the	Page 59	1 2		ge 61
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2 3 4	A. Yeah. I mean, and then things that, you know obviously, for the report, it is the	Page 59	2 3 4	correct? MS. PARFITT: Objection. Misstates his testimony. He didn't say he got a list.	ge 61
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	D (2)			D 64
	Page 62			Page 64
$\frac{1}{2}$	request?	1	material, I can tell you, there's not enough time	
2	A. I requested additional materials	2	to review all of it. I mean, if somebody has,	
3	regarding what are the constituents of talcum	3	that's great. I can't.	- 1
4	powder products. I you know, additional	4 5	Q. Are you done? A. Yes.	
5	materials regarding testing of talcum powder products I you know, anything to, you know,	6	Q. Did you, when you made that request,	
6 7	enhance my understanding whether there's evidence	7	intend for plaintiffs to provide you with all of	
8	to support or refute what we are seeing in the	8	the information that was available related to	
9	epidemiologic studies about an increased risk of	9	testing or related to ingredients or whatever	
10	ovarian cancer with talcum powder products.	10	other issues you requested documents on?	
11	Q. When you requested these materials,	11	MS. PARFITT: Objection. Form.	
12	testing materials, ingredient materials and any	12	A. Yes.	
13	other materials, did you want to see all of the	13	Q. All right. In your report, you cite	
14	materials that were available so that you could	14	and this is in references to the depositions	
15	form your opinion?	15	of witnesses in the talcum powder litigation.	
16	MS. PARFITT: Objection. Form.	16	For example, and let's take a look at Exhibit 4,	
17	A. All is you know, there's only so	17	your references, Cite No. 4 is to the deposition	
18	many hours. I mean, you know, I think I wanted	18	of Linda Loretz.	
19	to see as much as, you know, was relevant to	19	Did you review this?	
20	forming an opinion.	20	A. Yes, I did.	
21	Q. Well, you asked for records of testing	21	Q. And who is she?	
22	and you were provided with records, and we'll	22	A. I don't recall offhand, who she is.	
23	take a look at it	23	Q. Is that information that was provided	
24	A. Sure.	24	to you by plaintiffs' counsel?	
25	Q that purport to show that there is	25	A. Yes.	
	Page 63			-
	Page 05			Do oo 65
	·			Page 65
1	asbestos or asbestos has been found in talcum	1	Q. Who is Joshua Muscat, reference list,	Page 65
2	asbestos or asbestos has been found in talcum powder; correct?	2	Cite No. 5?	Page 65
2 3	asbestos or asbestos has been found in talcum powder; correct? A. I mean, that's not the only that's	2 3	Cite No. 5? A. I think he did one of the	Page 65
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2 3 4 5 6	asbestos or asbestos has been found in talcum powder; correct? A. I mean, that's not the only that's not only Q. Understood. MS. PARFITT: Excuse me. Let him	2 3 4 5 6	Cite No. 5? A. I think he did one of the meta-analyses. He's an author of one of the meta-analyses as well. Q. Who is Alice Blount, Cite 27?	Page 65
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		Page 66			Page 68
1	don't		1	A. So we can we can go back to the	
2	Q. Can you not answer that question?		2	sections where I cite these and then we can	
3	MS. PARFITT: Objection. I believe		3	discuss. Is that okay?	
4	A. I'm answering your question.		4	Q. No. Well, and if you need to if you	
5	MS. PARFITT: he did.		5	can't answer a question, tell me you can't answer	
6	Q. My question is: When you requested		6	a question.	
7	documents from plaintiffs' counsel on various		7	My question is: For these five or six folks	
8	topics, did you expect to receive whatever		8	who you have quoted a snippet from their	
9	documents may support plaintiffs' position and		9	deposition, did you review their entire	
10	whatever documents may refute plaintiffs'		10	transcript or did you just review an excerpt?	
11	position?		11	MS. PARFITT: Objection to the form.	
12	A. Yes.		12	A. So the answer will be, we have to go	
13	Q. All right. Who is John Hopkins,		13	one by one.	
14 15	reference item strike that reference list, Cite 33?		14 15	Q. All right. For Mr. Hopkins, did you	
16	A. I think it's yeah. It's a		16	review his entire deposition? A. No.	
17	deposition on behalf of J&J, I think.		17	Q. For Ms. Pier, did you review her entire	
18	Q. Do you know who Mr. Hopkins is?		18	deposition?	
19	A. No, I don't.		19	A. No.	
20	Q. Do you know what role he had with		20	Q. For Ms. Blount, did you review her	
21	talcum powder?		21	entire deposition?	
22	MS. PARFITT: Objection. Form.		22	A. I recall, yes.	
23	A. I mean, he was deposed in this		23	Q. Yes, you did?	
24	litigation and he provided testimony.		24	A. Yes.	
25	Q. The question is: Do you know what role		25	Q. For Ms. Loretz, did you review her	
				Contract of the second of the	
		Page 67			Page 69
1	Mr. Hopkins played in and with talcum powder?	Page 67	1	entire deposition?	Page 69
1 2	Mr. Hopkins played in and with talcum powder? A. He was providing testimony on behalf of	Page 67		entire deposition? A. Yes.	Page 69
1 2 3	A. He was providing testimony on behalf of	Page 67	1 2 3		Page 69
2		Page 67	2	A. Yes.	Page 69
2 3	A. He was providing testimony on behalf of the company. Is that	Page 67	2 3	A. Yes.Q. Did strike that.	Page 69
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		Page 70		Page 7
1	as those conducted by, you know, Health Canada.		1	as humanly possible.
2	I mean, they clearly state that, you know,		2	Q. My question is a little more specific.
3	you gather all relevant available evidence.		3	I'm talking now just about any documents produced
4	Q. That was your goal; is that right?		4	by Johnson & Johnson defendants or any documents
5	A. Yes.		5	produced by Imerys defendants.
6	Q. Did Health Canada review deposition		6	You do cite to several of those in your
7	testimony of company witnesses, to your		7	reference list; correct?
8	knowledge?		8	A. Yes.
9	A. Well, they were not available to them.		9	Q. You were provided those documents by
10	Q. When you practice, outside of being a		10	counsel for plaintiffs; correct?
11	litigation consultant, do you rely on excerpts of		11	A. Yes.
12	deposition testimony?		12	Q. Were you provided a large set of
13	A. Well, again, you know, outside of this,		13	materials, company documents from the J&J
14	when I do papers I mean, I do include		14	defendants and from the Imerys defendants, or
15	unpublished or whatever you can collect,		15	were you provided with select documents?
16	whether whether it's excerpts of I mean, I		16	MS. PARFITT: Objection. Form.
17	haven't if I look at my past papers, I can't		17	A. I mean, these are company documents. I
18	say that I've used excerpts of deposition		18	mean, what is the difference between the two?
19	transcripts.		19	Like explain to me by example.
20	Q. Did strike that.		20	Q. Were you provided a box of J&J
21	You also cite company documents in your list		21	documents or documents produced by J&J for your
22	of references; is that right?		22	review by plaintiffs' counsel?
23	A. Which one is that?		23	MS. PARFITT: Objection. Form.
24	Q. Exhibit 4.		24	A. I don't know. I mean, they provided
25	A. Which company?		25	documents. I see them as documents. I don't see
		Page 71		Page 7
1	Q. Well, for example, Item 116 refers to	Page 71	1	Page 7 a difference between. You can you know, you
2	Q. Well, for example, Item 116 refers to an Imerys document, item 63 refers to a document	Page 71	1 2	
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2 3 4	Q. Well, for example, Item 116 refers to an Imerys document, item 63 refers to a document or set of documents produced by the Johnson & Johnson defendants; correct?	Page 71	2 3 4	a difference between. You can you know, you can make that connection. Q. Let me do it this way. A. Sure.
2 3	Q. Well, for example, Item 116 refers to an Imerys document, item 63 refers to a document or set of documents produced by the Johnson & Johnson defendants; correct? A. What was the second one? I'm sorry.	Page 71	2 3	a difference between. You can you know, you can make that connection. Q. Let me do it this way. A. Sure. Q. Are the documents that you reviewed
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2 3 4 5 6 7	Q. Well, for example, Item 116 refers to an Imerys document, item 63 refers to a document or set of documents produced by the Johnson & Johnson defendants; correct? A. What was the second one? I'm sorry. You said 116 and then? Q. Yes. Sixty	Page 71	2 3 4 5 6 7	a difference between. You can you know, you can make that connection. Q. Let me do it this way. A. Sure. Q. Are the documents that you reviewed relating to those produced by J&J or produced by Imerys, do you list those in your references,
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	Page 74			Page 76
1	communications, the types of documents that you	1	testimony.	- 1.85 . 5
2	cite from or produced by J&J and by Imerys in	2	A. I've already stated that when I publish	
3	your reference list.	3	articles, the approach is to gather all relevant,	
4	Those are not the types of materials that	4	available evidence.	
5	you typically would rely on if you were doing a	5	And I have, in fact you can go back at my	
6	study for publication; correct?	6	articles and included data from company	
7	MS. PARFITT: Objection. Form.	7	documents in various systematic reviews and	
8	A. And, again, I've just said that, you	8	meta-analyses. So this idea that I have not	
9	know, I gathered all the relevant evidence, as	9	relied on company documents is you know, is	
10	would you know, as a methodology that's	10	not.	
11	acceptable and considered.	11	The question is about deposition transcripts	
12	But, you know, in my previous reviews, I've	12	and communiques. Those are generally not	
13	not had access to access to those documents.	13	available in the published domain, and even for	
14	And that's the only that's the only place	14	this particular instance, you know, for there's a	
15	where you can get access to these documents.	15	confidentiality order. I'm just trying to	
16	Q. The answer to my question is no, you	16	explain what happens.	
17	know, when you publish articles, you do not rely	17	Q. So that our record is clear, when you	
18	on internal company documents or communications	18	talk about internal communiques, we're talking	
19	as you are in this litigation matter; correct?	19	about internal communications, in this case,	
20	MS. PARFITT: Objection. Form.	20	materials that you have been provided by	
21 22	A. The reason is because there's a	21 22	plaintiffs that have been produced by J&J and by Imerys.	
23	confidentiality order. And so you can't say you can't publish articles when you can't access	23	Those are not the types of documents that	
24	them. I mean, there's a chicken and egg, here,	24	you typically have available and rely upon in	
25	right?	25	your published work; correct?	
23	ngiit.	23	your published work, correct.	
	Page 75			Page 77
1	Q. Understood.	1	MS. PARFITT: Objection. Misstates his	
2	The answer, though, to my question is yes;	2	testimony.	
3	correct?	3	Q. Is that correct, Doctor?	
4	MS. PARFITT: Objection. Form.	4	MS. PARFITT: Objection. Misstates his	
5	A. The reason is because these	5	testimony.	
6	documents	6	A. These are just not available to form an	
7	Q. Doctor, you need to answer the	7	opinion in the published domain.	
8	question.	8	Q. You have an additional	
9	MS. PARFITT: Wait, Mr. Zellers.	9	THE WITNESS: Can I take a break?	
10	Excuse me. Let the witness answer the question.	10	MR. ZELLERS: Sure. Of course. At any	
11	MR. ZELLERS: I'm asking him to answer	11	time.	
12	the question and then I'll be happy to move on.	12	THE WITNESS: Sorry about that.	
13	MS. PARFITT: No. You're telling him,	13 14	MR. ZELLERS: No. That's fine. THE VIDEOGRAPHER: Off the record.	
14 15	say yes. He's trying to answer your question. Ask him again. He'll answer the	15	10:22 a.m.	
16	question. He's done it twice.	16	(A recess was taken.)	
17	Q. Do you need me to repeat the question?	17	THE VIDEOGRAPHER: Here begins med	ia
18	A. Yes, please.	18	No. 2 in today's deposition of Sonal Singh, M.D.,	.1u
19	MR. ZELLERS: Could you read the	19	M.P.H. Back on the record, 10:35 a.m.	
	MIN, ZELLENG. COUID VOU IEAU IIIE			
		20	BY MR. ZELLERS:	
20	question?	20 21	BY MR. ZELLERS: O. Dr. Singh, are you ready to continue?	
	question? I'll ask it again.	20 21 22	Q. Dr. Singh, are you ready to continue?	
20 21	question?	21	Q. Dr. Singh, are you ready to continue?	
20 21 22	question? I'll ask it again. Q. Dr. Singh, when you publish articles,	21 22	Q. Dr. Singh, are you ready to continue?A. Yes, I am.	

		D 70			D 00
	5	Page 78			Page 80
1	Do you have that?		1	answer the causal question in this case; is that	
2 3	A. Yes.Q. There are some documents on this list		2 3	right? A. Yes.	
4	that have a preface of Imerys. And if you look		4	MS. PARFITT: Objection.	
5	on Page 87, you list those documents out. And		5	Q. You did not have access to internal	
6	then turning to Page 88, there's a series of		6	documents of J&J companies or of Imerys; is that	
7	documents that begin with J&J.		7	right?	
8	Do you see those?		8	A. Yes.	
9	A. Yes.		9	Q. You asked for those documents, the ones	
10	Q. Did you rely on those documents in		10	that would be relevant to you in forming an	
11	informing your opinions?		11	answer to the question you were asked of	
12 13	A. No. I mean, I reviewed I don't know		12 13	plaintiffs' counsel; correct?	
14	if I reviewed them in full. I just you know, they were provided to me.		14	A. Yeah. Relevant to consider or support or refute. Yeah.	
15	Q. That is, the set of documents that were		15	Q. The documents that were provided to you	
16	provided to you by counsel for plaintiffs; is		16	are the documents that appear with a J&J	
17	that right?		17	preface preface and an Imerys preface in the	
18	A. Yes.		18	reference list, Exhibit 4, and in the additional	
19	Q. Are you able, as we sit here, to tell		19	materials and data considered list, Exhibit 5;	
20	me what those documents are?		20	correct?	
21	A. Yeah. I mean, for example, some of		21	A. Yes.	
22	them is, you know, duplicative of expert reports		22	Q. Once you got those documents and you	
23	that are listed here. I don't know by number and		23	looked at those documents and you're not sure	
24 25	number, J&J, what that means. Q. I'm referring to, for this series of		24 25	you looked at all of them; is that right? A. Yes. I did not. I mean	
23	Q. This referring to, for this series of		23	A. Tes. Tulu liot. Tillean	
		Page 79			Page 81
1	questions, just to the other materials that you		1	Q. All right.	
2	have listed, the ones that begin with Imerys. So		2	A because it is not possible to look	
3	starting at Item 2 on Page 87. And then also		3	at all of them.	
4	1. 1. 1				
4	including the documents that begin J&J that go		4	Q. Did you make any follow-up request for	
5	through Item 23 on Page 88.		5	additional company documents, either documents	
5 6	through Item 23 on Page 88. Are you able to identify and tell us what		5 6	additional company documents, either documents produced by J&J or documents produced by Imery	rs,
5 6 7	through Item 23 on Page 88. Are you able to identify and tell us what those documents are?		5 6 7	additional company documents, either documents produced by J&J or documents produced by Imery of plaintiffs' counsel?	rs,
5 6 7 8	through Item 23 on Page 88. Are you able to identify and tell us what those documents are? A. I mean, I was provided them. I don't		5 6 7 8	additional company documents, either documents produced by J&J or documents produced by Imery of plaintiffs' counsel? A. I was inundated with these, and I don't	rs,
5 6 7 8 9	through Item 23 on Page 88. Are you able to identify and tell us what those documents are? A. I mean, I was provided them. I don't know what specifically they are, you know.		5 6 7 8 9	additional company documents, either documents produced by J&J or documents produced by Imery of plaintiffs' counsel? A. I was inundated with these, and I don't think it was practical of me to request for	rs,
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	through Item 23 on Page 88. Are you able to identify and tell us what those documents are? A. I mean, I was provided them. I don't know what specifically they are, you know. Q. Do you know how they were compiled? A. No. I'm not aware of the process. Q. Do you know what percentage of internal documents, internal to Johnson & Johnson companies and to Imerys, have been produced in the case that appear on your reliance list? A. I'm not aware of that proportion. Q. Did you request any additional J&J or Imerys documents other than the ones that were provided to you by plaintiffs' counsel? A. So, it's hard to say request additional. I requested question materials to answer my question. How would I know what		5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	additional company documents, either documents produced by J&J or documents produced by Imery of plaintiffs' counsel? A. I was inundated with these, and I don't think it was practical of me to request for additional documents. Q. In terms of internal company documents and communications produced either by Johnson & Johnson and by Imerys, the only documents you reviewed are the ones that were hand selected by lawyers for plaintiffs; is that right? MS. PARFITT: Objection. Form. A. The documents that I reviewed are listed, you know, in 4 and 5. Q. My question A. I don't know what so you're asking me to infer what they hand selected; right? I	rs,
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	So how can I answer that they were hand selected? Q. The company documents that you reviewed, internal company documents, they came from plaintiffs; is that correct? A. Yes. Q. The updated materials list, we marked that as Exhibit 6. Those are materials that were provided to you by plaintiffs' counsel; is that right? A. No. I submitted I mean, I had access to several of these documents, you know, after the submission of my report, and I reviewed them and I actually sent them some of them. So Q. What documents on this list did you provide to plaintiffs and what documents on this list we're looking at Exhibit 6 did they provide to you? A. Like I had the Fadak article. I had the Health Canada Assessment. They provided the submitted reports. I had the Weed article. They provided the Zervo I don't know how to pronounce that name. Yeah. So, yeah, I had access to some of these, and	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Q. It's fair to say you did not rely on the updated materials list in forming your opinions and preparing your report in this case; correct? A. Yeah. I did not rely on this, on these materials in preparing the report, but several of these materials are, you know, are helpful in explaining my opinions on this, which were, you know, provided in the report. Q. Have you published anywhere your theory that baby powder causes ovarian cancer? A. I don't consider it my theory. I mean, several other people have studied this. I don't know how many studies. There have been more to 30 studies. So I don't consider it my theory. But, no, I have not published a study on it. Q. Do you plan to publish on this? A. Yes, I do. Q. Are those plans underway? A. Well, I mean, a lot of it will, again, depend on, you know, the questions you asked about how much of this material will become eventually you know, I have signed a confidentiality order. So, you know, how much is	han
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 83 I provided the up-to-date article, and the remainder, they provided. MR. KLATT: May I interject? I didn't understand the very first article you said. It sounded like dark. THE WITNESS: Fadak. MS. PARFITT: F-A-D-A-K. THE WITNESS: Fadak, that's a paper MR. KLATT: Okay. I see. Thank you. THE WITNESS: That's a 2015 paper. MR. KLATT: I saw it. Thank you. BY MR. ZELLERS: Q. When did you review the materials that are listed on the updated materials list, Exhibit 6? A. So, again, maybe we circle back earlier when I said I did not review all of them, like I did not review the expert reports. Yeah. Q. Of the materials that you did review, on the updated materials list, when did you review those? A. Sometime between December and January. Q. It was after you had prepared your written report and produced it; is that right? A. Yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	allowed to be published. And so, you know, a lot of it will depend on, I guess, the permission of the judge, who allows who oversees these kind of I would like to, eventually. Q. Have you previously published on any topic relating to talc and ovarian cancer? A. No. Q. Have you conducted any test or experiments to confirm your theory that talc migrates to the ovaries and causes cancer via inflammation? A. So, again, that is not a theory that I have propounded, that talc migrates through the ovary, that talc migrates up to cause ovarian cancer, that I have evaluated the epidemiologic studies, which show a causal link between talc and ovarian cancer, and several other investigators, some of them which I cite, have provided evidence that of talc-induced, you know, migration. So it's not my theory, as you say. MR. ZELLERS: Move to strike as nonresponsive. Try to listen. Q. My question is, I think, a simple	Page 85

	Page 86			Page 88
1	question.	1	A. Yeah. It was available to everyone in	1 age 66
2	Have you, Dr. Singh, conducted any test or	2	December.	
3	experiments to confirm your statement in your	3	Q. Have you looked into what other public	
4	report that talc migrates to the ovaries and	4	health authorities have to say about talc and	
5	causes cancer via inflammation?	5	ovarian cancer?	
6	A. No. I have not done any experiments.	6	A. Yes.	
7	Q. Can you identify for me a single	7	Q. Would it be important for you to know	
8	article that identifies inflammation anywhere in	8	that CDC does not list talc as a risk factor for	
9	a woman's reproductive tract resulting from	9	ovarian cancer?	
10	external genital talc application?	10	MS. PARFITT: Objection. Form.	
11	MS. PARFITT: Objection. Form.	11	A. I mean, it would be important to know,	
12	A. Can you repeat the question?	12	you know, various agencies, you know, CDC,	
13	Q. Sure. Can you identify for me a single	13	whatever. I mean, you would like to know of	
14	article that identifies inflammation anywhere in	14	many, many agencies.	
15	a woman's reproductive tract resulting from	15	But, again, you'd have to you'd have to	
16	external genital talc application?	16	see the quality of their judgment. I mean, what	
17	A. I mean, again, this is, you know, when	17	is their rationale? What are the studies they	ı
18	I reviewed so this relates to the biological	18	reviewed? What is the data available?	
19	question about talc. And when I reviewed the	19	Just like as you said, what is the data	
20	biological evidence, I was on migration and	20	available to me to make that judgment, what is	
21	inflammation, I was looking for evidence, support	21	data available to them? Just because they are	
22	or refute that.	22	the CDC doesn't mean that, you know yes, I	
23	And there's studies that show that talc	23	would like to know their opinion, but then what	
24 25	migrates through HS, you know, whatever,	24 25	is the underlying basis of their opinion? Q. You're familiar with the CDC; correct?	
23	hysterosalpingography, and induces inflammation.	23	Q. Toute familial with the CDC, correct:	
	Page 87			Page 89
1		1	A. I'm very familiar with the CDC.	Page 89
1 2	Page 87 I mean, the definitive study is not there. And, again, I did not do these studies. So	1 2	A. I'm very familiar with the CDC.Q. It is an unbiased governmental entity;	Page 89
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2 3 4	I mean, the definitive study is not there. And, again, I did not do these studies. So	2 3 4	Q. It is an unbiased governmental entity;	Page 89
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2 3 4 5 6	I mean, the definitive study is not there. And, again, I did not do these studies. So I can only rely on people who have done such studies. Q. Can you cite a single study, animal or human, that traces externally applied talc up	2 3 4 5 6	 Q. It is an unbiased governmental entity; correct? A. Well, it would depend on the opinion. I mean, you know, we cannot say an entity is unbiased. It would depend what is the particular 	Page 89
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		Page 90			Page 92
1	Fallopian Tube, and Primary Peritoneal		1	not a risk factor for ovarian cancer?	
2	Cancer Prevention (PDQ) - Health		2	MS. PARFITT: Objection.	
3	Professional Version marked Exhibit 15.)		3	A. So the National Cancer Institute hasn't	
4	MR. ZELLERS: Take a look at Deposition		4	opined on that talc is not a causal you know,	
5	Exhibit 15.		5	is causally linked to ovarian cancer. It has	
6	MS. PARFITT: Thank you.		6	provided a listing of documents. It has not gone	
7	BY MR. ZELLERS:		7	through any systematic process, that I'm aware	
8	Q. Deposition Exhibit 15 is a publication		8	of, of looking at the epidemiologic data	
9	from the National Cancer Institute; is that		9	systematically.	
10	right?		10	It has not provided any evidence of	
11	A. It is.		11	inflammation or lack thereof or migration or lack	
12	Q. National Cancer Institute is a leading		12	thereof or to even, you know, arrive at this	
13	health authority; is that right?		13	causal hypothesis.	
14	A. Yes.		14	Q. Because it's important to look at both	
15	Q. It's a leading cancer research		15	sides of an issue; correct?	
16	institution in the world?		16	A. Yes. I did look so I'm saying that	
17	MS. PARFITT: Objection. Form.		17	I did look at this and my opinion	
18	A. Yes.		18	Q. Did you	
19	Q. Have you ever received a grant from the		19	MS. PARFITT: Please let him finish.	
20	National Cancer Institute?		20	Q. Are you finished?	
21	A. I've applied. I have not received any.		21	A. I'm saying I did look at this, and I'm	
22	I am applying again.		22	aware of this document.	
23	Q. They fund more cancer research than any		23	Q. Did you cite to the CDC in your report	
24	organization in the world; correct?		24	or references?	
25	MS. PARFITT: Objection.		25	A. I don't I wasn't aware of the CDC.	- 1
		Page 91			Page 93
1	A I don't know that particular number	Page 91	1	O Did you gite to the NIH in your report	Page 93
1 2	A. I don't know that particular number,	Page 91	1	Q. Did you cite to the NIH in your report	Page 93
2	but I just don't know that answer.	Page 91	2	or your references?	Page 93
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2 3 4	but I just don't know that answer. Q. Are you aware that the National Cancer Institute reviews the peer-reviewed literature as	Page 91	2 3 4	or your references? A. I should have. And if it isn't, it is remiss.	Page 93
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		Page 94			Page 96
1	O All might This do 41.	1 450 7 1	1		1 450 70
1 2	Q. All right. This document, this		2	A. I don't know if it's the conclusion,	- 1
2 3	document that we're looking at from the National Cancer Institute, Exhibit 15, was updated in		3	but, yes, you read that part of the statement correctly.	
4	January of 2019; is that right?		4	Q. Why would you rely on Health Canada,	
5	A. Yeah. But it doesn't mean the review		5	but not these other public health organizations?	
6	was updated, because it has no recent citations		6	MS. PARFITT: Objection. Misstates his	
7	of studies that have been conducted.		7	testimony.	
8	Q. We		8	A. In fact, I did rely on the Health	
9	A. We should look at the citation. Let's		9	Canada when my report was conducted. So you	
10	look at it, because we are discussing this		10	see I relied on the quality of the review and	
11	document, so we should look at it in detail.		11	the breadth of my review, which had hundreds of	
12	Q. Doctor, turn to Page 6.		12	studies, the breadth of review of biological	
13	A. No. Let me finish. I'm not finished		13	plausibility, the breadth of review of, you know,	- 1
14	with this document.		14	animal studies, applying the Bradford Hill	
15	MS. PARFITT: Go ahead. Let him		15	framework, and then forming an opinion.	
16	finish.		16	Q. How are you done?	
17	Q. Doctor, you have to answer my		17	A. No. I'm not done.	
18	questions.		18	And the Health Canada Assessment came after	
19	A. But I haven't answered it.		19	that. And it so happened their methodology	
20	Q. My question is look at Page 6. Can you		20	methodology methodology and opinions are	
21	do that?		21	consistent with mine.	- 1
22	A. Okay.		22	So it's not that I'm relying on that. I'm	
23	Q. All right. Page 6 is a section on		23	just saying that they are consistent and they	- 1
24	perineal talc exposure; is that right?		24	came to the same conclusions.	- 1
25	A. Yes.		25	Q. What materials and analysis was done by	
		Page 95			Page 97
1	Q. This is part of the National Cancer		1	the CDC in determining that talc is not a risk	,
$\frac{1}{2}$	Institute's publication on ovarian, fallopian		2	factor for ovarian cancer?	
3	tube and primary peritoneal cancer prevention; is		4		
				MS PAREITT Objection Form	
			3	MS. PARFITT: Objection. Form. A. I don't have that	- 1
4	that right?		3 4	A. I don't have that.	
4 5	that right? A. Yes.		3 4 5	A. I don't have that.Q. What materials were reviewed and relied	
4	that right? A. Yes. Q. On Page 6, the first sentence under		3 4 5 6	A. I don't have that. Q. What materials were reviewed and relied upon by NIH in determining that talc is not a	
4 5 6	that right? A. Yes. Q. On Page 6, the first sentence under perineal talc exposure states, "The weight of		3 4 5 6 7	A. I don't have that. Q. What materials were reviewed and relied upon by NIH in determining that talc is not a risk factor for ovarian cancer?	
4 5 6 7	that right? A. Yes. Q. On Page 6, the first sentence under perineal talc exposure states, "The weight of evidence does not support an association between		3 4 5 6	A. I don't have that. Q. What materials were reviewed and relied upon by NIH in determining that talc is not a risk factor for ovarian cancer? A. References 41 to 45.	
4 5 6 7 8 9	that right? A. Yes. Q. On Page 6, the first sentence under perineal talc exposure states, "The weight of		3 4 5 6 7 8	A. I don't have that. Q. What materials were reviewed and relied upon by NIH in determining that talc is not a risk factor for ovarian cancer?	
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	· .	Page 98		Page 10
1	National Cancer Institute; is that right?		1	assessment prior to its publication?
2	MS. PARFITT: Objection. Form.		2	A. No.
3	A. I'm not assuming anything. I'm		3	Q. Have you submitted any comments to
4	assuming that, just as the conclusions that you		4	Health Canada?
5	are assuming are definitive, I'm also, you know,		5	A. No.
6	stating that these are the studies that they		6	Q. Do you intend to submit any comments to
7	relied on to form those conclusions.		7	Health Canada?
8	So we can't pick and choose, assess		8	A. I don't know. I mean, it will depend
9	statement of the excerpt that you supports		9	on the timeline and I don't know what their
10	your opinion, but then not look at the underlying		10	timeline is and what my you know, I
11	evidence base that supports that opinion.		11	haven't I haven't thought about it.
12	Q. But we should consider all of that		12	Q. Outside of your litigation consulting,
13	information; correct?		13	do you generally rely on draft assessments by
14	A. Yeah. And the studies underlying.		14	regulatory agencies?
15	Q. And you did not consider the CDC's		15	MS. PARFITT: Objection. Form.
16	opinion in your report, did you?		16	A. Yes. I mean, you know, we look at
17	A. I mean, CDC so let's just step back		17	draft assessments on regulatory. There's no
18	a little.		18	reason not to.
19	When I say CDC opinion, I mean, I'm looking		19	Q. Have you ever cited a draft assessment
20	at original studies. I'm looking at data in		20	by a regulatory agency in any study that you've
21	forming my opinion. I did look at what IARC		21	published?
22	considered and other agencies considered.		22	A. Oh, I've published 200 papers, and I
23	My opinion is based on my review and the		23	can't recall, you know, which one, but I know
24	methodology and I was, you know, obviously,		24	that I have looked at draft assessments by the
25	taking into account what agencies say, but		25	FDA.
	D.			
	1	Page 99		Page 10
1	agencies' opinion is not necessarily the	age 99	1	Page 10 Q. Have you cited any?
2	agencies' opinion is not necessarily the underlying basis of my causal opinion.	age 99	1 2	Q. Have you cited any?A. I can't recall and tell you that. It's
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2 3 4	agencies' opinion is not necessarily the underlying basis of my causal opinion. Q. Whether it's CDC, NIH, NCI or Health Canada; correct?	'age 99	2 3 4	Q. Have you cited any?A. I can't recall and tell you that. It's just something I can't recall.Q. Are you familiar with the precautionary
2 3 4 5	agencies' opinion is not necessarily the underlying basis of my causal opinion. Q. Whether it's CDC, NIH, NCI or Health Canada; correct? A. Yeah. I mean, they're informing. I	age 99	2 3 4 5	Q. Have you cited any?A. I can't recall and tell you that. It's just something I can't recall.Q. Are you familiar with the precautionary principle?
2 3 4 5 6	agencies' opinion is not necessarily the underlying basis of my causal opinion. Q. Whether it's CDC, NIH, NCI or Health Canada; correct? A. Yeah. I mean, they're informing. I want to look at their thinking and what is the	age 99	2 3 4 5 6	 Q. Have you cited any? A. I can't recall and tell you that. It's just something I can't recall. Q. Are you familiar with the precautionary principle? A. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	agencies' opinion is not necessarily the underlying basis of my causal opinion. Q. Whether it's CDC, NIH, NCI or Health Canada; correct? A. Yeah. I mean, they're informing. I want to look at their thinking and what is the quality of their judgment on this. Q. You understand Health Canada has simply produced a draft assessment; is that right? MS. PARFITT: Objection. Form. A. Yes. Q. We are at the beginning of the public comment period; is that right? A. I don't know the timeline of that. Q. Are you aware that Health Canada can take up to two years to take any action or no action at all? A. Well, I mean, I was not asked a causal question on what to do about this. I was just asked a question on causality. And I'm not sort of I'm not privy to their process. Q. How did you come to learn of the Health	age 99	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Have you cited any? A. I can't recall and tell you that. It's just something I can't recall. Q. Are you familiar with the precautionary principle? A. Yes. Q. What is the precautionary principle? A. It is to, you know, apply, as my understanding, is to warn when there is, you know, evidence of a hazard. Q. That's your understanding of the precautionary principle? A. Yeah. Q. Do you understand that, as defined by Health Canada, a precautionary principle means taking a precautionary approach to decision-making that emphasizes the need to take timely preventative action even in the absence of a full scientific demonstration of cause and effect? A. If you're stating well, let's get the document out before we

	Page 102		Page 104
1	Canada Decision-Making Framework for	1	precautionary approach. A key feature of
2	Identifying, Assessing, and Managing Health	2	managing health risk is that decisions are often
3	Risks - August 1, 2000" marked Exhibit 16.)	3	made in the presence of considerable scientific
4	A. Okay. Can you point out which page?	4	uncertainty. A precautionary approach to
5	Q. Sure. Take a look at Pages 8 and 9.	5	decision-making emphasizes the need to take
6	So we identify it for the record, Exhibit 16 is	6	timely and appropriately preventative action,
7	the Health Canada Decision-Making Framework for	7	even in the absence of a full scientific
8	Identifying, Assessing and Managing Health Risk;	8	demonstration of cause and effect."
9	is that right?	9	Did I read that correctly?
10	A. Yes.	10	A. Okay.
11	Q. If you go to Page 8 and 9, Section 1.3	11	Q. Do you agree that the recommendation by
12	are the underlying principles for Health Canada;	12	Health Canada does not require a finding of
13	is that right?	13	causation like is required in a court; correct?
14	MS. PARFITT: Objection.	14	MS. PARFITT: Objection. Form.
15	MR. TISI: You're looking at the wrong	15	A. But I mean, that's what they conclude,
16	document. You're not looking at the draft	16	that there is a cause. We can look at the Health
17 18	assessment. You're looking at the	17	Canada document.
19	MR. ZELLERS: Counsel, I am	18 19	Q. Is a guiding principle of the Health
20	MR. TISI: But you identified something as something different than what it is.	20	Canada Decision-Making and Assessment to use a precautionary approach?
21	MR. ZELLERS: I identified the document	21	MS. PARFITT: Objection. Form.
22	as Health Canada Decision-Making Framework for	22	A. Well, no. I mean, precautionary
23	Identifying, Assessing and Managing Health Risk.	23	they are just defining a precautionary approach.
24	I'm reading the title of the document.	24	But when they assess talc for its whatever, you
25	MR. TISI: Okay. I have it wrong. Go	25	know, the talcum powder products, their
	That The only That the Winds		inion, die die die products, dien
	Page 103		Page 105
1	Page 103 ahead.	1	
1 2		1 2	particular assessment clearly states it's causal.
	ahead.		
2	ahead. MR. ZELLERS: That's okay.	2	particular assessment clearly states it's causal. And we should open that document. We should not
2 3	ahead. MR. ZELLERS: That's okay. A. Wherever we are.	2 3	particular assessment clearly states it's causal. And we should open that document. We should not talk about it in hypotheticals. Q. On what basis are you relying to state that Health Canada did not use a precautionary
2 3 4 5 6	ahead. MR. ZELLERS: That's okay. A. Wherever we are. Q. No problem, Doctor. MS. PARFITT: We'll orient ourselves. Q. Are we oriented?	2 3 4 5 6	particular assessment clearly states it's causal. And we should open that document. We should not talk about it in hypotheticals. Q. On what basis are you relying to state that Health Canada did not use a precautionary approach in assessing talcum powder?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ahead. MR. ZELLERS: That's okay. A. Wherever we are. Q. No problem, Doctor. MS. PARFITT: We'll orient ourselves. Q. Are we oriented? A. Yeah. I know the document. But the page number. Q. Look at Pages 8 and 9. A. Okay. Q. 1.3 are the underlying principles for Health Canada decision-making. Do you see that? A. Yes. Q. They list out a number of underlying principles on Pages 8 and 9. One of those is to use a precautionary approach; is that right? A. Yes. Q. If you then turn to Page 11, at the bottom, they define use of a precautionary	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	particular assessment clearly states it's causal. And we should open that document. We should not talk about it in hypotheticals. Q. On what basis are you relying to state that Health Canada did not use a precautionary approach in assessing talcum powder? MS. PARFITT: Objection. Form. A. No. No. No. Let me answer that question. You were asking about decision-making. Decision-making would be removal of talc, removal of that. But there's two parts to that question about cause and effect. So let's bring the document out and say where they state there is a causal relationship. Why aren't you bringing that document out? I mean, you can't talk about documents without documents. Q. Dr. Singh A. Yeah.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ahead. MR. ZELLERS: That's okay. A. Wherever we are. Q. No problem, Doctor. MS. PARFITT: We'll orient ourselves. Q. Are we oriented? A. Yeah. I know the document. But the page number. Q. Look at Pages 8 and 9. A. Okay. Q. 1.3 are the underlying principles for Health Canada decision-making. Do you see that? A. Yes. Q. They list out a number of underlying principles on Pages 8 and 9. One of those is to use a precautionary approach; is that right? A. Yes. Q. If you then turn to Page 11, at the bottom, they define use of a precautionary approach; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	particular assessment clearly states it's causal. And we should open that document. We should not talk about it in hypotheticals. Q. On what basis are you relying to state that Health Canada did not use a precautionary approach in assessing talcum powder? MS. PARFITT: Objection. Form. A. No. No. No. Let me answer that question. You were asking about decision-making. Decision-making would be removal of talc, removal of that. But there's two parts to that question about cause and effect. So let's bring the document out and say where they state there is a causal relationship. Why aren't you bringing that document out? I mean, you can't talk about documents without documents. Q. Dr. Singh A. Yeah. Q do you have any basis to state
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	D.	ngo 106		Page 108
		age 106		
1	MS. PARFITT: Objection. Form.		1	A. No.
2	Misstates the evidence.		2	Q. Hold on. Stop. Stop.
3	A. Yeah. But that does not preclude at		3	A. Sure.
4	arriving at a causal opinion. Just because you		4	Q. Just so we're clear, the updated
5	have a precautionary approach, you can still		5	materials list is a list that was created by
6	arrive at causal opinion, which they did.		6	plaintiffs' counsel; correct?
7	So this is this principle is not		7	MS. PARFITT: It was based upon
8	inconsistent with their report on a causal		8	materials that we had either sent or we had sent
9	opinion.		9	that he also had; correct.
10	Q. The standard under a precautionary		10	MR. ZELLERS: This Exhibit 6 is a list
11	approach is that decisions can be made even in		11	of materials that were provided by plaintiffs'
12	the absence of a full scientific demonstration of		12	counsel to Dr. Singh, understanding that
13	cause and effect; correct?		13	Dr. Singh has testified that he independently had access to some of the materials.
14 15	MS. PARFITT: Objection. Form. A. That is a threshold, but that does not		14 15	
16	preclude the determination of cause and effect,		16	MS. PARFITT: Correct. Including Taher.
17	which has been done already.		17	THE WITNESS: Yeah. And some of them,
18	Q. Are you familiar with the Taher 2018		18	I added, such as some of the published articles
19	publication?		19	and Health Canada.
20	A. Taher. I don't know which one.		20	BY MR. ZELLERS:
21	Q. T-A-H-E-R.		21	Q. You have read the Taher 2018
22	Q. 1-A-11-L-R. A. Yes.		22	manuscript; is that right?
23	Q. Are you familiar with that publication?		23	A. I mean, I read the yeah, I mean,
24	A. Yeah. It was cited in the Health		24	primarily, I read their assessment in Health
25	Canada document.		25	Canada.
23	Canada document.		23	Canada.
	Pa	age 107		Page 109
1		age 107	1	
1 2	Q. Have you reviewed and analyzed that	age 107	1 2	MR. ZELLERS: Deposition Exhibit
2	Q. Have you reviewed and analyzed that publication?	age 107	2	MR. ZELLERS: Deposition Exhibit well, strike that.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Have you reviewed and analyzed that publication? A. I mean, I reviewed it. I don't know if I analyzed it. What do you mean by "analyzed"? Q. You have not included it on your references or additional materials considered or updated materials; is that right? MS. PARFITT: Objection. A. It was part of the Health Canada. It should have been part, because it was part, in my mind, part of the Health Canada Assessment. Q. Can you show me where A. Well, I haven't. Q the Taher publication is listed in your updated materials which we marked as Exhibit 6? MS. PARFITT: For the record, we created this list, Mr. Zellers, and part of the Canadian, just for form, and you can inquire. MR. ZELLERS: That's okay.	age 107	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. ZELLERS: Deposition Exhibit well, strike that. Q. What you told me, when I asked you about CDC and NIH and NCI, is you got to look at the underlying documents, the underlying studies; is that right? A. Yes. Q. One of the underlying documents and studies on which Health Canada reviewed was the Taher article; is that right? A. Yes. (Document entitled "Systematic Review and Meta-Analysis of the Association between Perineal Use of Talc and Risk of Ovarian Cancer" marked Exhibit 17.) BY MR. ZELLERS: Q. The Taher article is what we have marked as deposition Exhibit 17; is that right? MS. PARFITT: Thank you. MR. TISI: Is it Thayer or Taher? A. It is Taher, T-A-H-E-R.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Have you reviewed and analyzed that publication? A. I mean, I reviewed it. I don't know if I analyzed it. What do you mean by "analyzed"? Q. You have not included it on your references or additional materials considered or updated materials; is that right? MS. PARFITT: Objection. A. It was part of the Health Canada. It should have been part, because it was part, in my mind, part of the Health Canada Assessment. Q. Can you show me where A. Well, I haven't. Q the Taher publication is listed in your updated materials which we marked as Exhibit 6? MS. PARFITT: For the record, we created this list, Mr. Zellers, and part of the Canadian, just for form, and you can inquire.	age 107	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. ZELLERS: Deposition Exhibit well, strike that. Q. What you told me, when I asked you about CDC and NIH and NCI, is you got to look at the underlying documents, the underlying studies; is that right? A. Yes. Q. One of the underlying documents and studies on which Health Canada reviewed was the Taher article; is that right? A. Yes. (Document entitled "Systematic Review and Meta-Analysis of the Association between Perineal Use of Talc and Risk of Ovarian Cancer" marked Exhibit 17.) BY MR. ZELLERS: Q. The Taher article is what we have marked as deposition Exhibit 17; is that right? MS. PARFITT: Thank you. MR. TISI: Is it Thayer or Taher?
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	Pas	ge 110			Page 112
1	2018 article?	50 110	1	Q. Why did you rely on this article,	1 450 112
2	A. Yeah. I requested access from the		2	Taher, Exhibit 17?	
3	attorneys, if they had it. They provided it.		3	MS. PARFITT: Objection to form.	
4	Q. So plaintiffs' attorneys provided you		4	A. I mean, when you say I relied on, I	
5	with access to the article we've marked as		5	mean, I reviewed the, again, Health Canada	
6	Exhibit 17 prior to its publication; is that		6	Assessment. So none of this is in isolation.	
7	right?		7	I mean, this is just a part of, you know,	
8	A. Yeah.		8	the body of evidence. You know, my testimony	
9	MS. PARFITT: Objection.		9	relies on and my report relies on the evidence	
10	A. I don't know if it has been published		10	cited there.	
11	yet.		11	This is, you know, another meta-analysis	
12	Q. Did you have access to the appendices		12	that, you know, I reviewed the evidence in	
13	or supplemental tables referenced in the Taher		13	slightly different ways and came to the same	
14	publication?		14	conclusions and, you know, also did a causal	
15	A. Yes, I did.		15	analysis. So it's sort of, you know, you have to	
16	Q. In your epidemiologic strike that.		16	review what evidence comes out.	
17	Is the Taher publication, which we've marked		17	If another meta-analysis comes out tomorrow,	
18	as Exhibit 17, is that peer-reviewed?		18	then I would review it.	
19	A. It's peer-reviewed, and I assume that		19	Q. Do you know the source of funding for	
20	it's going to be published. And it was reviewed		20	this publication?	
21	by Health Canada. So I mean, it is		21 22	A. I don't know. I mean, Health Canada or	
22 23	peer-reviewed, is my understanding. It is I don't know the exact status of		23	something else, I don't know that. I can't answer that question.	
24	that manuscript.		24	Q. You're assuming that Health Canada is	
25	Q. What organization has peer-reviewed the		25	the source of funding for this publication?	
23	Q. What organization has peer-reviewed the		23	the source of funding for this publication:	
	Pag	ge 111			Page 113
1		ge 111	1	A. I don't know. I shouldn't answer that.	Page 113
1 2	Taher publication, Exhibit 17? A. So I don't yeah, again, I take it	ge 111	1 2	A. I don't know. I shouldn't answer that.Q. Do you know the credentials of the	Page 113
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	Page 114			Page 116
1	MS. PARFITT: Objection.	1	sentence. And I'll read it. Have you found	
2	A. That's a very vague and broad question.	2	Page 41 of Exhibit 17?	
3	I mean, conflicts of interest as it relates to	3	A. 41?	
4	what?	4	Q. Yes. Page 41. Do you have that?	
5	Q. Do you know?	5	A. Yeah. Yeah.	
6	MS. PARFITT: Objection. Form.	6	Q. The very last	
7	A. As it relates to what?	7	A. Yeah. I'm looking at it.	- 1
8	Q. You told me you don't know any of the	8	Q. Tell me if I read this correctly. "The	- 1
9	authors; right?	9	similarity of findings between studies published	- 1
10 11	A. Yeah.	10 11	prior to and after this point suggest asbestos	- 1
12	Q. I've now asked you if you know if any of the authors had conflicts of interest.	12	contamination does not explain the positive association between perineal use of talc powder	- 1
13	A. And I'm saying that I'm reading the	13	and risk of ovarian cancer."	- 1
14	article and I'm reading their declaration, and	14	Did I read that correctly?	- 1
15	that's the only way to find out that they have	15	A. Yes.	
16	conflicts of interest, right.	16	Q. Do you disagree with the authors on	- 1
17	Q. I should be more precise.	17	that point?	- 1
18	A. Yeah.	18	A. Let me just read it.	- 1
19	Q. Of your own personal knowledge, do you	19	Well, I mean, to the extent that they are	- 1
20	know whether or not any of the authors have	20	aware that asbestos does not contaminate talc	- 1
21	conflicts of interest?	21	is not contaminated with asbestos, I do agree.	- 1
22	A. That's a separate	22	But, again, I have, you know, obviously more	- 1
23	MS. PARFITT: Objection.	23	information on that.	- 1
24 25	A. So what I'm trying to say is, you know, when you ask about conflicts of interest, if you	24 25	Q. On Page 25 of Exhibit 17, the Taher 2018 article, is a table entitled "Summary of	- 1
23	when you ask about conflicts of filterest, if you	23	2016 article, is a table entitled. Summary of	
	Page 115			Page 117
1	Page 115 want to ask about my article, you'd have to go	1	Evidence for Each of the Hill Criteria of	Page 117
2		1 2	Causation as Applied to Perineal Application of	Page 117
2 3	want to ask about my article, you'd have to go and read the article and see that, what is stated there.	1 2 3	Causation as Applied to Perineal Application of Talc and Ovarian Cancer."	Page 117
2 3 4	want to ask about my article, you'd have to go and read the article and see that, what is stated there. So that's what I'm trying to answer when you	1 2 3 4	Causation as Applied to Perineal Application of Talc and Ovarian Cancer." Is that right?	Page 117
2 3 4 5	want to ask about my article, you'd have to go and read the article and see that, what is stated there. So that's what I'm trying to answer when you ask. I'm trying to be honest and truthful about	1 2 3 4 5	Causation as Applied to Perineal Application of Talc and Ovarian Cancer." Is that right? A. Yes.	Page 117
2 3 4 5 6	want to ask about my article, you'd have to go and read the article and see that, what is stated there. So that's what I'm trying to answer when you ask. I'm trying to be honest and truthful about my answers.	1 2 3 4 5 6	Causation as Applied to Perineal Application of Talc and Ovarian Cancer." Is that right? A. Yes. Q. One of the Hill criteria is	Page 117
2 3 4 5 6 7	want to ask about my article, you'd have to go and read the article and see that, what is stated there. So that's what I'm trying to answer when you ask. I'm trying to be honest and truthful about my answers. MR. KLATT: Objection; nonresponsive.	1 2 3 4 5 6 7	Causation as Applied to Perineal Application of Talc and Ovarian Cancer." Is that right? A. Yes. Q. One of the Hill criteria is consistency; is that right?	Page 117
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		Page 118		Page 120
1		age 116	1	consistent evidence. There are studies that
$\begin{array}{ c c }\hline 1\\ 2\end{array}$	50 percent? A. Yes.		2	
3			3	provide dose-response and other studies that don't.
	MS. PARFITT: Objection. Let me			
4	object, please.		4	Q. You currently work for the University
5	Q. That's no better than a coin toss;		5	of Massachusetts; is that right?
6	MS DARFITT. Object to the form		6 7	A. Yes.
	MS. PARFITT: Object to the form.			Q. You work for both the medical school
8	A. It is 50 percent.		8	and the medical center; is that right?
9	Q. Would you say that 15 out of 30 means		9	A. Yes.
10	there are consistent results across studies?		10	Q. Are you aware that the University of
11	A. Well, I mean, again, my definition of		11	Massachusetts does not claim that talcum powder
12	inconsistency, as noted in my report, is		12	causes ovarian cancer?
13	different from theirs.		13	MS. PARFITT: Objection. Form.
14	Q. These are just the case control		14	A. I don't know what they're listed on
15	studies; is that right?		15	their website. I'm not sure they provide any
16	A. When you say they just say 30		16	information sheet that I am aware of.
17	studies. Yeah.		17	(Printout entitled "Ovarian
18	Q. These are case-control studies; is that		18	Cancer: Risk Factors" marked Exhibit 18.)
19	right?		19	BY MR. ZELLERS:
20	MS. PARFITT: Objection. Form.		20	Q. Take a look, if you will, at Deposition
21	A. Well, they're both, right? Case		21	Exhibit 18.
22	control and core.		22	MR. TISI: What is 16?
23	Q. The authors in Taher also recognize		23	MR. ZELLERS: Exhibit 16 was the Health
24	that there's no consistent dose-response across		24	Canada Decision-Making Framework. It's right
25	studies; is that right?		25	here.
	I	Page 119		Page 121
1		Page 119	1	Page 121 MR TISI: Oh I have that Counsel
1 2	MS. PARFITT: Objection. Form.	Page 119	1 2	MR. TISI: Oh. I have that, Counsel.
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	Page 122		Page 124
1	A. Yes, you did.	1	take a look at Exhibit 2 or Exhibit 10, whichever
2	Q. Why doesn't your institution list talc	2	is easier for you.
3	exposure as a risk factor for ovarian cancer?	3	A. Page 66?
4	MS. PARFITT: Objection. Misstates the	4	Q. Yes. Your conclusion.
5	evidence.	5	A. Yes.
6	A. So, yeah, I mean, first of all, this	6	Q. You state that peritoneal use of talcum
7	is I've seen this the first time here, but as	7	powder products can cause ovarian cancer;
8	you can see, again, this is we have to go to	8	correct?
9	Page 3 of 4 and it's medical reviewers and they	9	A. Yes.
10	are, you know, basing their opinion on whatever.	10	Q. Is it your opinion that it does cause
11	This was done in 2013.	11	ovarian cancer or just that it can?
12	So it depends on the it's not that, you	12	MS. PARFITT: Objection to form.
13	know, my medical, you know, employer is listing	13	A. I don't know the semantics of what
14	it. Obviously, it's listed there.	14	would be if semantics of can and does. I
15	And but it's based on the quality of the	15	mean, you can explain to me. Maybe my English is
16	evidence. This was reviewed on 2016, and it was	16	not as good as yours.
17	reviewed by, as you see, the credentials of	17	Q. What type of exposure causes ovarian
18	did they review the did they review the	18	cancer?
19	biological evidence? Did they have any	19	A. Perineal application. So I mean, are
20	additional information?	20	you asking specific to talc?
21	So I don't disagree with their opinion, I'm	21	Q. Yes. With respect to talc exposure,
22	just saying.	22	what type of talc exposure causes ovarian cancer?
23	Q. Dr. Singh, do you recommend to your own	23	MS. PARFITT: Objection. Form.
24	patients that they avoid talcum powder use?	24	A. You know, perineal application of talc
25	A. Now, I do.	25	can, you know, use of talc.
	Page 123		Page 125
1	Page 123 Q. When did you begin doing that?	1	
1 2		1 2	Q. What types of strike that. What types of talcum powder cause ovarian
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	Page 126			Page 128
1	MS. PARFITT: Objection. Form.	1	Q. You did not conduct a meta-analysis	-
2	A. I examined, you know, the causal link	2	here; is that right?	
3	between talcum powder products and ovarian cancer	3	A. Yes. And I partly pragmatic	
4	as the data was available in the available	4	reasons. Partly, there were so many other	
5	studies. You know, I could not there was	5	meta-analyses that I, you know although I	
6	no I mean, there was data on	6	would have done things a little bit differently,	
7	dose-responsiveness, and we can discuss that.	7	and I just didn't feel the need for one more	
8	But, you know, I don't know if it's a single	8	meta-analysis that would be informative.	
9	application or it's 20 years. I mean, it is	9	Q. What was your methodology for focusing	
10	regular use and that would cause it.	10	on certain studies or excluding other studies?	,
11	Q. It's correct that you have not	11	A. So I'm not aware that I excluded	
12	evaluated specifically what dose of talcum powder	12	certain studies, because I, as I compare, I have	
13	is required to cause ovarian cancer; correct?	13	included all the epidemiologic studies that are	
14	MS. PARFITT: Object to form.	14	here. There's always a possibility that once,	
15	A. Yeah. I mean, I don't know a specific	15	you know, when you do a review, that you may	
16	dose that would cause ovarian cancer.	16	have.	
17	Q. What was your methodology for	17	But, you know, I included all the relevant	
18	concluding that talc causes ovarian cancer or, I	18	case-control studies and the cohort studies and	
19	guess to be more precision, serous ovarian	19	the systematic review and meta-analysis that I	
20	cancer?	20	identified.	
21	A. Yeah. I mean, mainly	21	And, yeah, I mean, I may have weighed	
22	MS. PARFITT: Objection.	22	studies differently based on their quality,	
23	A. Yeah. Epithelial ovarian cancer.	23	validity and reliability.	
24	Q. What was your methodology?	24	Q. That's how you tried to make a	
25	A. So, yeah, I did, you know so prior	25	distinction?	
	Page 127			Page 129
1	Page 127	1	A Voob	Page 129
1	to that, I was aware of systematic reviews and	1	A. Yeah.	Page 129
2	to that, I was aware of systematic reviews and other reviews in this area.	2	Q. Do you believe the standard for proving	Page 129
2 3	to that, I was aware of systematic reviews and other reviews in this area. So I, as a broad you know, we should look	2 3	Q. Do you believe the standard for proving causation in the scientific literature is the	Page 129
2 3 4	to that, I was aware of systematic reviews and other reviews in this area. So I, as a broad you know, we should look at the methods section of this report.	2 3 4	Q. Do you believe the standard for proving causation in the scientific literature is the same as the one that applies in litigation?	Page 129
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1	•		MC DADEITT, Objection Forms	1 age 132
1 2	A. Yes.Q. And when I say "dated," there's a stamp	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	MS. PARFITT: Objection. Form. A. So just to clarify, where do they say	
3	at the top that says April 1, 2014; correct?	3	they apply the Bradford Hill in this document?	
4	A. Yes.	4	Q. You're familiar with the Bradford Hill	
5	Q. Have you reviewed this FDA analysis	5	criteria; is that right?	
6	before today?	6	A. Yes. I use it, but in this FDA	
7	A. Yes. I have reviewed the letter.	7	document, where does it state they apply the	
8	Yeah.	8	Q. It is one of the criteria for	
9	Q. On Page 4 of the FDA document, at the	9	consistency across studies. Is that a Bradford	
10	bottom, do you see that? A. I do.	10 11	Hill criteria?	
11 12	Q. The FDA noted that selection bias	12	A. But exactly they don't go through all of them. So I don't know if they did a Bradford	
13	and/or uncontrolled confounding result in	13	Hill. So how can I just assume that? They don't	
14	spurious positive associations between talc use	14	talk about, you know, specificity. They don't	
15	and ovarian cancer; is that right?	15	talk about strength of association. So I can't	
16	MS. PARFITT: Objection. Form.	16	assume that they're applying Bradford Hill.	
17	A. Yes. That's what they conclude.	17	Q. IARC did address the Bradford Hill	
18	Q. The FDA notes a lack of consistency in	18	considerations; is that right?	
19	the study results; is that right?	19	A. Yes. In the year 2005. That was	
20	MS. PARFITT: Objection.	20	around 15 years ago.	
21	A. Yes. And this was conducted in, I	21	Q. IARC rejected classification of talc as	
22 23	don't know, 2014, 2013. Q. The FDA specifically states, "Results	22 23	carcinogenic and, instead, assigned it to the classification of possibly carcinogenic to	
24	of case-control studies do not demonstrate a	24	humans; is that right?	
25	consistent positive association across studies";	25	MS. PARFITT: Objection. Misstates the	
	consistent positive association across studies ,			
	Page 13	1		Page 133
1	is that right?	1	evidence.	
2	A. Yes. That's what they state.	2	A. So, again, you know, just clarifying	
3	Q. The FDA also states that,	3	that this was done in 2005, with evidence that	
4	"Dose-response evidence is lacking"; is that	4	has accumulated since then. And I wouldn't	
5	-			
_	right?	5	classify it I have served on IARC panels, and	
6	right? MS. PARFITT: Objection.	5 6	classify it I have served on IARC panels, and I'm very familiar with their process. They don't	
6 7 8	right? MS. PARFITT: Objection. A. Where is that? I'm sorry.	5 6 7	classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the	
6 7 8	right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of	5 6 7 8	classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to	
6 7 8 9	right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4.	5 6 7 8 9	classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be.	
6 7 8	right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of	5 6 7 8	classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to	
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6 7 8 9 10 11	right? MS. PARFITT: Objection. A. Where is that? I'm sorry. Q. Look at Paragraph 3 at the bottom of Page 4. A. Yes. Q. The FDA further concludes that, "A	5 6 7 8 9 10 11 12 13	classify it I have served on IARC panels, and I'm very familiar with their process. They don't reject anything. They classify drugs in the particular categories that they're supposed to be. So it was actually classified as possibly carcinogenic. Q. Take a look at Exhibit 20. (IARC Classifications marked	
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	Page 134			Page 136
1	Q. There are 120 agents that have been	1	A. Yes.	1 1150 130
2	determined by IARC, the International Agency for	2	Q. So out of the 1,000 agents that IARC	
3	Research on Cancer, as Group 1 agents,	3	has reviewed, it has placed only one agent in	
	carcinogenic to humans; is that right?	4	Group 4, probably not carcinogenic; is that	
5	A. Yeah. That includes asbestos, many	5	right?	
	others.	6	A. Yeah. But 499 are not classifiable as	
6	Q. That is the only category in which IARC	7	it relates, so.	
8	finds sufficient evidence in humans; correct?	8	Q. IARC doesn't even have a Group 5, not	
9	A. No. To clarify, they have it may be	9	carcinogenic, does it?	
10	in my report, that they have a particular way of	10	A. Well, I mean, all the once it's	
11	defining that category. And it may not be just	11	probably not carcinogenic, it's not carcinogenic.	
12	sufficient evidence in humans. They may be	12	Q. The best that IARC can state is that an	
13	something else. If I can look back at my report.	13	agent is probably not carcinogenic to humans,	
14	Q. Well, if it's in your report, it's in	14	which is Group 4; is that right?	
15	your report. And we can all read that.	15	A. Yes.	
16	My question to you is: Group 1 is a	16	MS. PARFITT: Objection.	
17	category where IARC has determined that there is	17	Q. All right. As with strike that.	
18	sufficient evidence in humans to classify an	18	With genital talc, the IARC group 2B	
19	agent as carcinogenic; is that right?	19	designation is based on limited evidence in	
20	MS. PARFITT: Objection. Misstates	20	humans; is that right?	
21	Dr. Singh's testimony.	21	MS. PARFITT: Objection.	
22	A. I mean, do I get time to	22	A. Yes. There was some animal	
23	Q. Doctor, I only have seven hours here.	23	consideration. There were some biological	
24	So go to Exhibit 20. I'll make this quick.	24	mechanisms, but, again, in 2005, and as I state	
25	Do you see Exhibit 20 in front of you?	25	in my report, which I have, and there have been	
			in my report, which I have, and alere have seen	
	Page 135			Page 137
1	A. Yeah.	1	multiple studies since then. And that, you know,	
2	Q. This is the IARC classifications; is	2	that they should be revisited.	
3	that right?	3	Q. That means IARC cannot rule out chance.	,
4	A. Okay. Mm-hmm.	4	bias or confounding with reasonable confidence;	
5	Q. Group 1 states, "Carcinogenic to	5	correct?	
6	humans."	6	A. Based on the data they had at that	
7	A. Yes.	7	time.	
8	Q. Do you see that?	8	Q. What else is in 2B, possibly strike	
9	A. Yeah.	9	that.	
10	Q. All right. Group 2A, there are 82	10	What else is in class 2B, possibly	
11	agents that are probably carcinogenic to humans;	11	carcinogenic? Are you familiar with Ginkgo	
12	is that right?	12	biloba?	
13		13	MS. PARFITT: Objection to form.	
1 4 4	A. Yes.			
14	Q. IARC is certainly capable of reaching a	14	A. I know the name.	
15	Q. IARC is certainly capable of reaching a decision that something is a known or probable	14 15	A. I know the name.Q. Are you aware that that's classified as	
15 16	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right?	14 15 16	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC?	
15 16 17	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection.	14 15 16 17	A. I know the name.Q. Are you aware that that's classified as a 2B agent by IARC?A. I don't know. I mean, you know, they	
15 16 17 18	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based	14 15 16 17 18	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I	
15 16 17 18 19	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence.	14 15 16 17 18 19	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to	
15 16 17 18 19 20	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence. Q. It has placed at least 200 agents in	14 15 16 17 18 19 20	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to answer the question.	
15 16 17 18 19 20 21	 Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence. Q. It has placed at least 200 agents in Group 1 or Group 2A; is that right? 	14 15 16 17 18 19 20 21	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to answer the question. Q. Pickled vegetables, 2B; is that right?	
15 16 17 18 19 20 21 22	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence. Q. It has placed at least 200 agents in Group 1 or Group 2A; is that right? A. Yes.	14 15 16 17 18 19 20 21 22	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to answer the question. Q. Pickled vegetables, 2B; is that right? A. How do I know? Show me.	
15 16 17 18 19 20 21 22 23	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence. Q. It has placed at least 200 agents in Group 1 or Group 2A; is that right? A. Yes. Q. There's only one agent in Group 4,	14 15 16 17 18 19 20 21 22 23	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to answer the question. Q. Pickled vegetables, 2B; is that right? A. How do I know? Show me. Q. Occupational	
15 16 17 18 19 20 21 22	Q. IARC is certainly capable of reaching a decision that something is a known or probable carcinogen; is that right? MS. PARFITT: Objection. A. Yes. I mean, 15 years ago, yes, based on the evidence. Q. It has placed at least 200 agents in Group 1 or Group 2A; is that right? A. Yes.	14 15 16 17 18 19 20 21 22	A. I know the name. Q. Are you aware that that's classified as a 2B agent by IARC? A. I don't know. I mean, you know, they also classify as it relates to exposure. So I haven't reviewed Ginkgo biloba to be able to answer the question. Q. Pickled vegetables, 2B; is that right? A. How do I know? Show me.	

	D 120			D 140
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	aware of that? A. Again, this is 2015. And, you know, yes. I don't know I'm aware of that. I mean, you can't put words in my mouth that pickle how do I know that? Q. There's no chance of my putting words in your mouth. IARC can change its classification for a substance; is that right? A. It does. I mean, from what I understand. Q. It has not changed its Group 2B classification since it determined that talc was a 2B agent; is that right? MS. PARFITT: Objection. Form. A. It has not carried out an assessment since 2005, that I'm aware of. Q. Has IARC changed its group 2B classification? A. No MS. PARFITT: Objection. A and as far as I'm aware, no assessment has been carried out. Q. Bradford Hill, strength of association is one of the criteria; is that right? A. I don't consider them criteria.	1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Q. Doctor, I'm asking you questions. My question is: Epidemiologists consider a 1.3 odds ratio in case-control studies to be a weak or modest association; correct? MS. PARFITT: Objection. Misstates the evidence and the science. A. Not the epidemiologists that I contacted. You know, we look at various, you know as I state in my report, you know, you can have modest associations and you can have a relative risk of one that are lower, and if you go to a low-prevalence population, and then remove competing risk factors, those can be attenuated. So the epidemiologists that I interact with, and we don't look at this as weak or modest or high. We just look at it in the whole causal framework. Q. Can you point to any peer-reviewed literature on tale and ovarian cancer that states that 1.3 odds ratio is a strong association? A. Again, that's not I'm not looking at tale at 1.3 is a strong association. I'm stating that, yeah, I can't point to the tale literature that states that.	Page 140
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	There's overviews. I think I'm just picking the terms. I mean, they're overviews of Bradford Hill. Doesn't list them as criteria, because criteria implies a list of things that you can pick and choose from. Q. You would call them what? A. Overviews. Actually, that's what he calls them. Q. Overviews. Strength of association is a Bradford Hill overview; is that right? A. Yes. Q. Epidemiologists consider a 1.3 odds ratio in case-control studies to be a weak or modest association; is that right? MS. PARFITT: Objection. Misstates the evidence. A. No. I mean, again, strength of association based on depends on the study question at hand, the study design, and, you know, the quality of the underlying data. So strength of association, in and of itself, does not provide any any any sort of any answer to the causal question. Again, I'll go back to my report.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Q. IARC does not refer to this as a strong association; correct? MS. PARFITT: Objection. Form. A. I don't know what the particular objective or qualifier they use. I mean Q. FDA doesn't refer to this as a strong association, do they? MS. PARFITT: Objection to form. A. Again, you have to sort of just show me where they are, and I'll agree with it. Q. Have you seen any statement from IARC that there is a strong association between genital talc use and ovarian cancer? A. I don't recall that particular phrase. Q. All right. The National Cancer Institute doesn't refer to this as a strong association; correct? MS. PARFITT: Objection to form.	Page 141

1	Page 142			Page 144
1	not again, we can parse this out. I mean, I	1	me when you have that.	5
2	was just looking at the causal question. Is talc	2	A. Yeah.	
3	causally related to the development of ovarian	3	Q. "Proposal to research community." Do	
4	cancer?	4	you see that?	
5	And, you know, most of the evidence that I	5	A. Yes.	
6	examined were was provided in terms of serous	6	Q. Tell me if I read this statement by the	
7	epithelial cancer, and	7	authors correctly.	
8	Q. I thought you told me that your	8	"The current body of experimental and	
9	methodology was to look at the Bradford Hill	9	epidemiological evidence is insufficient to	
10	overview factors; is that right?	10	establish a causal association between perineal	
11	A. Yeah.	11	use of talc and ovarian cancer risk.	
12	Q. All right. And one of those factors is	12	Experimental research is needed to better	
13	strength of association; is that right?	13	characterize deposition, retention, and clearance	
14	A. Yes.	14	of talc to evaluate the ovarian carcinogenicity	
15	Q. And that's a factor that you looked at;	15	of tale."	
16	correct?	16	Did I read that correctly?	
17	A. Yes.	17	A. Yes.	
18	Q. Do your opinions on strength of	18	Q. You're drawing conclusions from this	
19	association apply equally to all forms of ovarian	19	study that are broader than the study authors'	
20	cancer?	20	own conclusions; is that right?	
21	MS. PARFITT: Objection. Form.	21	MS. PARFITT: Objection.	
22	A. Well, I did not disaggregate my, you	22	A. I didn't draw. So you were asking me	
23	know, opinion by histologic subtype.	23	that whether I drew a single conclusion from the	
24	Q. You cite to the Langseth paper; is that	24	Langseth. I mean, there are I think I cite	
25	right?	25	all the meta-analyses first, and then so I'm	
	Page 143			Page 145
1	A. I do.	1	not just drawing inferences from there.	
2	Q. You state that the authors in Langseth	2	And the authors, as far as I am aware, A,	
3	2008 found an odds ratio ranging between 1.12 to	3	there have been several other studies published	
4	1.4, depending upon the type of study design. Is	4	since then. This is 2007. So we have 12 years	
5	that right? This is on Page 22 of your report.	5	and savaral publications. And D the authors	
6	A. Okay.		and several publications. And, B, the authors	
7	· ·	6	themselves have provided opinions that they are	
	Q. Langseth, in fact, rejects causation	6 7	*	
8	Q. Langseth, in fact, rejects causation and says more study is needed; correct?	6 7 8	themselves have provided opinions that they are causally related. Dr. Siemiatycki, as far as I'm aware.	
8 9	Q. Langseth, in fact, rejects causationand says more study is needed; correct?MS. PARFITT: Objection. Form.	6 7 8 9	themselves have provided opinions that they are causally related. Dr. Siemiatycki, as far as I'm aware. Q. Did you cite this paper in your report?	
8 9 10	 Q. Langseth, in fact, rejects causation and says more study is needed; correct? MS. PARFITT: Objection. Form. A. I don't know why you have stated they 	6 7 8 9 10	themselves have provided opinions that they are causally related. Dr. Siemiatycki, as far as I'm aware. Q. Did you cite this paper in your report? A. Yes.	
8 9 10 11	 Q. Langseth, in fact, rejects causation and says more study is needed; correct? MS. PARFITT: Objection. Form. A. I don't know why you have stated they reject causation. Show me that statement in that 	6 7 8 9 10 11	themselves have provided opinions that they are causally related. Dr. Siemiatycki, as far as I'm aware. Q. Did you cite this paper in your report? A. Yes. Q. The authors in this paper state that	
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				5 40
		Page 146		Page 148
1	A. This is not the only		1	overall evidence, my testimony is that the cohort
2	MS. PARFITT: Objection. Form.		2	study estimates are in line with the case-control
3	A paper. I cited on 2017, 2018.		3	evidence and provide evidence of consistency.
4	Q. Go to the acknowledgments section.		4	Q. The cohort studies themselves, looking
5	Do you see the acknowledgments off to the		5	just at those studies, and I'm going to ask you
6	left?		6	about the others
7	A. Yes.		7	A. Sure, sure.
8	Q. The authors are IARC members; is that		8	Q do not show a consistent
9	right?		9	association between talc use and ovarian cancer;
10	A. Yes.		10	correct?
11	Q. The authors of this paper, Langseth?		11	MS. PARFITT: Objection. Misstates the
12	A. Yes.		12	testimony.
13	Q. Another overview factor of Bradford		13	A. So that's not the way I look at
14	Hill is consistency; is that right?		14	evidence. I look at everything. That's what you
15	A. Yes.		15	want to look at. You can look at it.
16	Q. The literature does not show a		16	I just look at evidence, you know, whatever
17	consistent association between talc use and		17	is out there. So I didn't look at cohort studies
18	ovarian cancer; right?		18	in and of themselves.
19	MS. PARFITT: Objection to form.		19	And that's why we do systematic reviews.
20	A. I disagree.		20	That's why we do meta-analyses, because you want
21	Q. The cohort studies do not show an		21	to look at everything at the same time.
22	association between talc use and ovarian cancer;		22	Q. You did not look at the cohort studies
23	correct?		23	individually; correct?
24	MS. PARFITT: Objection to form.		24	A. I did. And they're in my report.
25	A. I disagree. The cohort studies show		25	Q. If you looked at the cohort studies
	n.) 1 <i>47</i>		Dec. 140
		Page 147		Page 149
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2	in the same direction as the case-control			
			2	association between talc use and ovarian cancer;
3	studies, which, as several of the authors, such		3	correct?
3 4	studies, which, as several of the authors, such as Penninkilampi and others and me, interpret as		3 4	correct? MS. PARFITT: Objection. Misstates the
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1	ovarian cancer in one of them, and cumulative	1	MS. PARFITT: Wait. Are you in the	
2	evidence from cohort studies shows an excess risk	2	middle?	
3	of ovarian cancer which is not statistically	3	A. Yeah. That's incorrect. It should be	
4	significant.	4	the population-based case studies. That's my	
5	Q. Hospital-based, case-control studies	5	you know, that's a misstatement on my part.	
6	collectively do not show an association between	6	Q. So you need to amend your report?	
7	talc use and ovarian cancer; correct?	7	A. Yeah. Yeah.	
8	MS. PARFITT: Objection. Misstates the	8	Q. So if we go to Page 54	
9	evidence.	9	A. Yeah.	
10	A. That is incorrect, because	10	Q Paragraph 8, you state that it's an	
11	hospital-based, case-control studies also show an	11	error when you state, "As opposed to	
12	association between talc use and ovarian cancer	12	hospital-based controls, which may be less	
13	which is not, you know and I would have to	13	susceptible to selection bias, the	
14	look again. Please bring out the studies,	14	population-based, case-control studies have	
15	because I want to look at some of the studies	15	consistently showed a higher estimate of	
16 17	before I, you know, provide specific you're asking very specific questions about	16 17	increased risk of ovarian cancer associated with talc use."	
18	hospital-based studies, so I have to look at the	18	A. Yeah. And I was applying the less	
19	studies.	19	susceptible to the population-based statement.	
20	Q. If you can't answer a question, tell me	20	Q. How do you need to correct this	
21	you can't answer it. But my question is,	21	statement?	
22	hospital-based, case-control studies collectively	22	A. I don't know how, you know. Yeah, it	
23	do not show an association between talc use and	23	would be as opposed to hospital-based controls,	
24	ovarian cancer; correct?	24	population-based, case-control studies may be	
25	MS. PARFITT: Objection. Misstates the	25	less susceptible to selection bias.	
	v		•	
	Page 151			Page 153
1		1	O You believe that population-based	Page 153
1 2	evidence.	1 2	Q. You believe that population-based studies may be susceptible to less selection	Page 153
2	evidence. A. No. I disagree. And, again, I'd have	2	studies may be susceptible to less selection	Page 153
2 3	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper?		studies may be susceptible to less selection bias?	Page 153
2 3 4	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that	2 3 4	studies may be susceptible to less selection bias? A. May be less susceptible.	Page 153
2 3	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper?	2 3	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the	Page 153
2 3 4 5	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that paper. A. No. But then how can I answer	2 3 4 5	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the article we looked at a few minutes ago.	Page 153
2 3 4 5 6	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that paper. A. No. But then how can I answer questions?	2 3 4 5 6	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the article we looked at a few minutes ago. Do you see that?	Page 153
2 3 4 5 6 7	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that paper. A. No. But then how can I answer questions? Q. I need you to answer my questions. If you can't answer a question, then tell me	2 3 4 5 6 7	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the article we looked at a few minutes ago.	Page 153
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that paper. A. No. But then how can I answer questions? Q. I need you to answer my questions. If you can't answer a question, then tell me you can't answer the question. A. I'm willing to answer the question. Just bring me the evidence so that I can look at it. I'm sorry. I'm trying my best. Q. In your report, you state that hospital-based, case-control studies may be less susceptible to selection bias than population-based, case-control studies; correct? A. Where do I state that? Q. Look at your report on Page 54, Paragraph 8. A. Actually, I state entirely the opposite. I state that the population-based	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the article we looked at a few minutes ago. Do you see that? A. That's the Langseth? Q. Yes. The Langseth article. Do you see that? A. Yes. Q. Take a look under the hospital-based studies. Do you see that on Page 359? A. Yes. Q. You are the one who cites this paper and relies on it; is that right? A. Yes. Q. If we look at pooled odds ratio for hospital-based studies A. Mm-hmm. Q the odds ratio is 1.2 and the confidence interval is a .92 to 1.36; is that	Page 153
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	evidence. A. No. I disagree. And, again, I'd have to can we pull the Penninkilampi paper? Q. Doctor, I'm going to ask you about that paper. A. No. But then how can I answer questions? Q. I need you to answer my questions. If you can't answer a question, then tell me you can't answer the question. A. I'm willing to answer the question. Just bring me the evidence so that I can look at it. I'm sorry. I'm trying my best. Q. In your report, you state that hospital-based, case-control studies may be less susceptible to selection bias than population-based, case-control studies; correct? A. Where do I state that? Q. Look at your report on Page 54, Paragraph 8. A. Actually, I state entirely the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	studies may be susceptible to less selection bias? A. May be less susceptible. Q. Take a look at Exhibit 21. That's the article we looked at a few minutes ago. Do you see that? A. That's the Langseth? Q. Yes. The Langseth article. Do you see that? A. Yes. Q. Take a look under the hospital-based studies. Do you see that on Page 359? A. Yes. Q. You are the one who cites this paper and relies on it; is that right? A. Yes. Q. If we look at pooled odds ratio for hospital-based studies A. Mm-hmm. Q the odds ratio is 1.2 and the	Page 153

	Page 154		Page 156
1	Q. That means that it may or may not be	1	behavioral change bias, which attenuates towards
2	show an association between talc use and ovarian	2	the null. It induces an element of
3	cancer. The pooled result; is that right?	3	misclassification of exposure, which goes towards
4	MS. PARFITT: Objection to form.	4	null. It limits the duration of assessment,
5	Q. Given that confidence interval.	5	which, you know, limits assessment. So it
6	MS. PARFITT: Objection to form.	6	doesn't have power to suggest.
7	A. Yeah. Again, this is you know, at	7	So, yes, recall bias is a feature that is
8	that time. I don't know what studies have been	8	better assessed in the cohort studies, but recall
9	added. We can look in the new paper, which I'm	9	bias, for exposures that are daily use, such as
10	not sure why it's not been brought up.	10	talc, are less likely, you know, to be in play.
11	But, yes, it does show an excess risk, not	11	Recall bias let me finish my explanation.
12	statistically significant, consistent with the	12	Recall bias would less likely be in play
13	population studies.	13	because we don't see evidence with nonperineal
14	Q. All right. Hospital-based control	14	talc exposure. Recall bias are less likely to be
15	studies, you're more likely to be comparing	15	in play because we only see it with epithelial
16	hospitalized patients to hospitalized patients;	16	ovarian cancer.
17	is that right?	17	So, yes, cohort studies less, but there are
18	A. Yes. That's why they're hospital based.	18 19	other biases.
19 20	Q. Population-based studies, you're more	20	Q. Couldn't recall bias explain the difference between cohort studies and
21	likely to be comparing ill people to healthy	21	retrospective case-control studies?
22	people; is that right?	22	MS. PARFITT: Objection. Form.
23	A. Yeah. Your source of control. I	23	A. I don't think so. There's multiple
24	mean well, it depends. How do you know if	24	other biases and multiple other strengths and
25	it's ill people? If you are sourcing from the	25	limitations that would have to be considered.
	Page 155		Page 157
1	population in both, it's a population-based	1	Q. You cite to Berge, a 2017 paper, in
2	population in both, it's a population-based study.	2	Q. You cite to Berge, a 2017 paper, in your report; is that right? Is that correct?
2 3	population in both, it's a population-based study. Q. Population-based, case-control studies,	2 3	Q. You cite to Berge, a 2017 paper, in your report; is that right? Is that correct? A. Yes.
2 3 4	population in both, it's a population-based study. Q. Population-based, case-control studies, the ones that you look at only show a weak	2 3 4	Q. You cite to Berge, a 2017 paper, in your report; is that right? Is that correct? A. Yes. MR. ZELLERS: Take a look at
2 3 4 5	population in both, it's a population-based study. Q. Population-based, case-control studies, the ones that you look at only show a weak association between talc use and ovarian cancer;	2 3 4 5	Q. You cite to Berge, a 2017 paper, in your report; is that right? Is that correct? A. Yes. MR. ZELLERS: Take a look at Exhibit 22.
2 3 4 5 6	population in both, it's a population-based study. Q. Population-based, case-control studies, the ones that you look at only show a weak association between talc use and ovarian cancer; is that right?	2 3 4 5 6	Q. You cite to Berge, a 2017 paper, in your report; is that right? Is that correct? A. Yes. MR. ZELLERS: Take a look at Exhibit 22. (Article entitled "Genital use
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	Page 158			Page 160
1	Q. What was your methodology for	1	that the case-control stories are more powered.	
2	discounting the effect of recall bias in the	2	Q. Do you agree that some case-control	
3	population-based, case-control studies?	3	studies have shown statistically significant	- 1
4	A. I mean, it's not like there's a once	4	findings and others have not?	- 1
5	recall is operational, there are no methods that	5	A. Yes.	- 1
6	you can and do discount. But just the quality	6	Q. What is your methodology for weighing	- 1
7	and, you know, the quantity of evidence over	7	the lack of consistency in statistical	- 1
8	studies and the fact that even the cohort	8	significance across studies?	- 1
9	studies, despite these limitations, show an	9	MS. PARFITT: Objection. Form.	- 1
10	increased risk suggests that recall bias, while	10	A. I can answer that. Yeah.	- 1
11	it is potential, cannot explain be the only	11	So the methodology for correcting the lack	- 1
12	explanation for a causal link between talc and	12	of significance, that's why you do a	- 1
13	ovarian cancer. You cannot adjust for recall	13	meta-analysis. That's an inverse variance	- 1
14	bias after the completion of the study.	14	weighted meta-analysis. You so all of these	- 1
15 16	Q. What is the rate of error in that	15 16	studies have accounted for the fact that their	- 1
17	methodology? A. I think that none of them have	17	confidence intervals are crossing 1. And that's how they have accounted for lack of a statistical	- 1
18	calculated it. And Dr. Cramer has done in his	18	significance.	- 1
19	last study. And it appears that you'd have to	19	So you can see that all of these estimates	- 1
20	need a significant degree of recall bias. And I	20	are weighted by sample size. So	- 1
21	am going to reference my report.	21	Q. Do you agree that if a study does not	- 1
22	Q. Okay. Didn't the cohort studies	22	show a statistically significant association, it	- 1
23	involve a much greater	23	could mean that no risk exists? Correct?	- 1
24	A. I'm not done.	24	MS. PARFITT: Objection. Form.	- 1
25	MS. PARFITT: Excuse me.	25	A. In the context of that study. But,	- 1
	Page 159			Page 161
1	A. I'm done.	1	again, I am looking at the cumulative evidence.	- 1
2	MS. PARFITT: One moment. He wanted to	2	Q. It could mean strike that.	- 1
3	reference something in his report.	3	It could just be occurring by chance; is	- 1
4	A. Yeah. The risk of exposure would have	4	that right?	- 1
5	to be very high to nullify the increased risk.	5	MS. PARFITT: Objection. Form.	- 1
6	Q. Didn't the cohort studies involve a	6	A. I'm looking at the whole body of	- 1
7	much greater number of women than the	7	evidence.	
8	case-control studies?	8	In the context of a single study, yes.	
9	MS. PARFITT: Objection. Misstates the	9	Q. If a study is underpowered it could be	- 1
10 11	evidence. A. Yeah. But their combined number of	10 11	because the difference in risk is too small to detect such as a risk ratio smaller than 1.15;	
12	ovarian cancer cases was 890. So power is only	12	isn't that right?	
13	depends on the number of cases.	13	A. Yes. It's possible.	
14	Q. What was your methodology for weighing	14	Q. All right. You have a criticism in	
15	the power of the cohort studies versus the	15	your report of the Nurses' Health Study; is that	- 1
16	case-control studies?	16	right?	
17	A. I mean, retrospective calculations of	17	MS. PARFITT: Objection to form.	
18	power are, you know, not really recommended once	18	A. I don't have again, I don't have	
19	you already have the results. I mean, we already	19	criticisms. I have pointed out the strengths and	
20	see that the overall cumulative evidence	20	limitations.	
21	from many meta-analyses suggests an increased	21	Q. Well, let's look at some of those.	
22	you know, provides an increased risk.	22	On Pages 40 and 41 of your report, you	
23	And we know that there's thousands of cases	23	discuss the Gates 2008 study; is that right?	
24	in the case control. There's, you know, I don't	24	A. 40. Yes.	
25	know how many cases in the cohort, so we know	25	Q. The Gates 2008 study showed a	- 1

	Page 162		Page 164
1	statistically significant increased risk of total	1	Study questionnaire; correct?
$\frac{1}{2}$	epithelial ovarian cancer; is that right?	$\frac{1}{2}$	A. Yes.
$\frac{2}{3}$	A. Let me just look at it. There's so	$\frac{2}{3}$	Q. And you cite that on Page 48 of your
4	many of these. Yes.	4	report, second paragraph; is that right?
5	Q. The Gates 2008 study used data	5	A. Yes.
6	collected in the Nurses' Health Study; is that	6	Q. You state, "Further, as discussed
7	right?	7	above, determining never use, based only on a
8	A. Yes. There was another part to it as	8	one-time question, near the start of the study,
9	well.	9	14 years prior to terminating the study in 1996,
10	Q. In the Nurses' Health Study, the	10	introduces undirectional behavioral change bias,
11	participants were asked about their talc exposure	11	likely misclassifying some ever users who used
12	in one questionnaire in 1982; is that right?	12	talc during the study as never users and biased
13	A. Yes.	13	the findings toward the null."
14	Q. When they were asked about their talc	14	Is that what you state in your report?
15	use, the participants were between 36 and 61	15	A. Let me just read it. Yes.
16	years of age; is that right?	16	Q. So when you discuss the Gertig 2000
17	A. Yes.	17	study, you say that, because the participants in
18	Q. As you state in your report, you agree	18	the Nurses' Health Study were only about or only
19	that, although tale exposure and I'm looking	19	asked about talc use once, near the beginning of
20	at Page 41	20	the study, women who started using tale after
21	A. Yes.	21	they completed that questionnaire could have been
22	Q. The first paragraph. You agree that,	22	misclassified as never users; is that right?
23	"Although talc exposure was only measured in the	23	A. Yeah.
24	1982 Nurses' Health Study questionnaire, when	24	Q. But when you talk about the study that
25	participants were between 36 to 61 years of age,	25	you believe supports your opinion
	Page 163		Page 165
1	the number of users who began talc use after this	1	A. Yeah.
2	is likely small, as shown by the fact that more	2	Q Gates 2008, you recognize that the
3	than 95 percent of controls with regular talc in	3	vast majority of women who use talc initiate use
4	the NECC reported talc use before age 35."	4	before age 36; is that right?
5	A. Yes.	5	A. Yeah. But it does not both points
6	Q. Is that correct?	6	are valid. I mean, I'm just stating the
7	A. Yes.	7	limitations of the Gates study and the Gates
8	Q. Later in your report, on Pages 47 and	8	analysis. So.
9	48, you discuss the Gertig 2000 study; is that	9	I don't see an incongruity that you're
10	right?	10	trying to point out. I'm just saying the
11	A. Yes.	11	proportion of women who were never users, the
12	Q. That study also uses the data from the	12	number of users who began is likely small. But
13	Nurses' Health Study; correct?	13	it still does not eliminate the possibility of
14	A. Yes. It's all part of the same cohort.	14	unidirectional behavioral change bias.
15	Q. That study, Gertig 2000, did not find a	15	Q. When you're looking at a cohort study,
16	statistically significant relationship between	16	Gertig 2000 that does not support your opinion,
17	daily talc use and all types of ovarian cancer;	17	you're talking about limitations; correct?
18	is that right?	18	MS. PARFITT: Objection. Misstates his
19	A. Yeah. Again, I mean, they are	19	testimony.
20	different they're the same cohort with	20	A. I'm not talking about a study that does
21	different follow-up time, different design. But	21	not support mine. I'm looking at the strengths
22 23	it did not. And it found an increased risk for	22 23	and limitations of a study.
23	serous ovarian cancer. O Gertig 2000, that study also relied on	23	Q. You state two different things, depending upon whether you're talking about Gates
25	Q. Gertig 2000, that study also relied on the national strike that the Nurses' Health	25	2008 or Gertig 2000; correct?
23	the national Strike that the indises fleatin	25	2000 of Octug 2000, confect:

	Page I	56		Page 16	8
1			1	·	
1 2	MS. PARFITT: Objection. Misstates his testimony.		1 2	participants in the Houghton 2014 study was 63.3 years at baseline, with 12.4 years of follow-up	
3	A. I am not.		3	on average; is that right?	
4	First of all, they are two different		<i>3</i>	A. Yes.	ı
5	analyses of a cohort. So they're not two		5	Q. And then you say that, because	ı
6	different things about.		6	participants were not asked again about talcum	ı
7	And I'm pointing out, you know, the reasons		7	powder use during follow-up, people who initiated	ı
8	that that so I'm, you know, pointing out in		8	talc use after the study began were being	ı
9	Gates that, yes, talc exposure is a single-time		9	misclassified as never users. Is that right?	ı
10	exposure. And it is you know, introduces an		0	A. Yes.	ı
11	element of bias.		1	Q. So, again, when the study supports your	ı
12	But I'm also pointing out in Gates why that		2	opinion, you recognize that the vast majority of	ı
13	bias is likely to be, you know, small coming from		3	perineal talc users begin that use well before	ı
14	the other consortium.		4	age 63.	
15	Q. But you don't say that when you discuss		5	MS. PARFITT: Objection. Misstates	
16	Gertig 2000, do you?		6	testimony.	ı
17	A. Yeah. Because it wasn't done in		7	A. I don't recognize that. How do I	ı
18	conjunction with the NECC consortium.		8	recognize that? I'm just citing that, in Gates,	ı
19	Q. All right. Look at Page 49 of your		9	they provided that opinion. Yeah.	ı
20	report. You discuss the Houghton 2014 study; is		20	In the Gates study, they quoted data from	ı
21	that right?		21	the NECC, that that's one study that provides. I	ı
22	A. Yes.		22	don't know what's happening in the in this	ı
23	Q. All right. Houghton did not find a		23	Houghton study, that vast majority. That's	
24	statistically significant increase in the risk of		24	something that you are providing. And you	
25	ovarian cancer with perineal talc use; is that		25	provide data that the vast majority of users	
	1				4
	Page 1	57		Page 16	9
1	right?		1	began	
2	A. Yes.		2	Q. It's something you cited in your	
3	Q. Houghton did not find a statistically		3	report; correct?	
4	significant increase in the risk of ovarian		4	A. Yeah. But it doesn't mean that that	
5	cancer with use of talcum powder on sanitary		5	applies to, you know, this Houghton study as	ı
6	napkins or diaphragms; is that right?		6	well.	ı
7	A. Yeah. They found an increased risk		7	Q. And that's my point. You take a piece	ı
8	which was not statistically significant.		8	of information in terms of when women begin their	ı
9	Q. And Houghton 2014 did not find a		9	talc use. You apply it differently in your	ı
10	statistically significant increase in risk of		0	analysis of studies that favor plaintiffs'	ı
11	ovarian cancer with increasing durations of use		1	position than studies that do not favor	ı
12	or when stratified by age or tubal ligation		2	plaintiffs' position?	
13	status; correct?		.3	A. I'm sorry. I have to object.	ı
14	MS. PARFITT: Objection. Form.		4	MS. PARFITT: Objection.	
15	A. I don't know that specific. I mean,		.5	A. I have to object. This is a	ı
16	you'd have to show me. Again, I don't remember		6	mischaracterization of my testimony. I mean, I	
17	these studies offhand.		7	have to object to this. Because no, I have	
18	Q. Like the Nurses' Health Study, the		8	to.	
19	Houghton 2014 authors ask participants about		9	MS. PARFITT: Let him finish. Let	1
20	their talcum powder use at the participants'		20	him	
21	entry into the study; is that right?		21	A. Because you are mischaracterizing my	
22	A. Yes. And they don't update during a		22	testimony.	
23	follow-up, introducing, you know, bias.		23	Yes, I point out the limitations in one	1
24	Q. On Page 50 of your report, second paragraph, you note that the average age of the		24 25	section that, you know, a majority of women. And I also point out the unidirectional change bias,	
25					

	Page 170		Page 172
1	and both are entirely congruent with each other.	1	MR. ZELLERS: So I'll ask just a few
2	But yes	2	questions about this study
3	Q. Tell	3	MS. PARFITT: And if it's not here
4	A. Yes.	4	MR. ZELLERS: then we'll take a
5	Q. Are you finished?	5	break, because we've been going for a while.
6	A. Yes.	6	(Article entitled "Perineal Talc
7	Q. All right. On what are you relying to	7	Use and Ovarian Cancer, A Systematic Review
8	opine that enough women begin talcum powder use	8	and Meta-Analysis" marked Exhibit 23.)
9	in their 50s and 60s such that the results of	9	BY MR. ZELLERS:
10	Houghton or Gates 2000 are biased toward the	10 11	Q. Doctor A. I think we need a break in five
11 12	null?	12	minutes. I need a break. I don't know about
13	A. Well, I mean, we know exactly. I mean, we don't know that. I mean, we can't	13	
14	even a small amount, and that's important to	14	you. Q. We don't want to wear you out.
15	know, that even a small amount of users was	15	A. It's only half. Not even half the way.
16	class because we didn't ask those questions.	16	Q. I'm handing you Exhibit 23. This is
17	So even a small amount of users who had moved to	17	the Penninkilampi meta-analysis that you have
18	the other category would have nullified you	18	referred to in your report and also in your
19	know, would have biased it towards the null.	19	testimony; is that right?
20	Q. Based on all your review, the data that	20	A. Yes.
21	you came across and that you cite in your report,	21	Q. You rely on this meta-analysis,
22	are that the vast majority of women begin talc	22	Deposition Exhibit 23, in forming your opinions;
23	use in their 20s or earlier; correct?	23	is that right?
24	A. No. I cite that in the NECC. That's	24	A. As one of the studies. Yes.
25	the data I came across. And that's why it is	25	Q. It's a 2018 meta-analysis; is that
	Page 171		Page 173
1		1	Page 173
1 2	cited. So to mischaracterize it as not being cited is incorrect.	1 2	
1 2 3	cited. So to mischaracterize it as not being		right?
1 2 3 4	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer?	2	right? A. Yes.
3	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's,	2 3 4 5	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study?
3 4 5 6	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's, you know, several years.	2 3 4 5 6	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study? A. When you say the Gates 2002 the
3 4 5 6 7	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's, you know, several years. Q. Several years.	2 3 4 5 6 7	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study? A. When you say the Gates 2002 the study that we
3 4 5 6 7 8	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's, you know, several years. Q. Several years. That's your testimony based upon all of the	2 3 4 5 6 7 8	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study? A. When you say the Gates 2002 the study that we Q. What we looked at before was Gates
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3 4 5 6 7 8 9 10	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's, you know, several years. Q. Several years. That's your testimony based upon all of the data and material you've reviewed? A. Yes. I mean MS. PARFITT: Objection.	2 3 4 5 6 7 8 9 10	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study? A. When you say the Gates 2002 the study that we Q. What we looked at before was Gates 2008. And we also looked at Gertig 2000 A. All these different studies. Q. That's all right.
3 4 5 6 7 8 9 10 11 12	cited. So to mischaracterize it as not being cited is incorrect. Q. What is the latency period for ovarian cancer? A. I don't know a specific number. It's, you know, several years. Q. Several years. That's your testimony based upon all of the data and material you've reviewed? A. Yes. I mean MS. PARFITT: Objection. Q. You've you've been referring to	2 3 4 5 6 7 8 9 10 11 12	right? A. Yes. Q. Are you aware that this meta-analysis by Penninkilampi does not include the Gates 2010 update of the Nurses' Health Study? A. When you say the Gates 2002 the study that we Q. What we looked at before was Gates 2008. And we also looked at Gertig 2000 A. All these different studies. Q. That's all right. You're aware that there are several
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	Page 174		Page 176
1	referred to as Gertig 2000?	1	So I think it's quite reliable and, you
2	A. Yeah. I have. It's cited in my report	2	know, they were justified. They said we're going
3	as well, 92.	3	to look at case control with more than 50 cases.
4	Q. Are you aware that Penninkilampi does	4	So I don't consider it unreliable for that
5	not include the Gates 2010 update of the Nurses'	5	reason.
6	Health Study?	6	MR. ZELLERS: Let's take a break.
7	MS. PARFITT: Refer to your	7	THE VIDEOGRAPHER: Here ends Media
8	A. Can I take a look?	8	No. 2. Off the record, 12:24 p.m.
9	MS. PARFITT: Of course, you can.	9	(Lunch recess was taken.)
10	Q. Sure.	10	THE VIDEOGRAPHER: Here begins media
11	A. Yeah. It cites Gertig.	11	No. 3 in today's deposition of Sonal Singh, MD,
12	Q. But it does not cite Gates 2010; is	12	M.P.H. Back on the record, 1:02 p.m.
13	that right?	13	BY MR. ZELLERS:
14	A. I don't see it.	14	Q. Dr. Singh, another Bradford Hill
15	Q. Do you weigh this study, the	15	overview factor that you considered is
16	meta-analysis by Penninkilampi, less because it	16	dose-response; is that right?
17	does not include the Gates 2010 study?	17	A. Yes.
18	A. I mean, all of these meta-analyses,	18	Q. Which studies show a dose-response?
19	most of them have found, you know, similar odds	19	A. Let me just refer to my report.
20	ratio. You know, some of them have made different decisions.	20	So in you know, in assessing
21 22		21 22	dose-response, it's very challenging with an
23	They have made for example, they made decisions about more than 50 cases. Other if	23	exposure such as perineal talc, particularly because, you know, you need to know the amount,
24	you look at the Taher meta-analysis, they	24	you need to know the duration, you need to know
25	decided, based on that a New Castle Tawas	25	the intensity of exposure. So there are
23	decided, bused on that a few custic fawas	23	the intensity of exposure. So there are
	Page 175		Page 177
1	Skill Rating will include studies.	1	challenges.
2	So you have to review that. Just because	2	The second is the challenge of modeling
3	they excluded Gates 2010, I wouldn't weigh it	3	dose-response. When we say dose-response or
4	differently. That's my answer.	4	exposure outcome, is it linear monotonic
5	Q. Gates 2010 tends to negate an	5	relationships?
6	association between perineal talc use and ovarian	6	And, you know, several studies, some measure
7	cancer; correct?	7	duration, some measure intensity, some measure
9	MS. PARFITT: Objection. Misstates the evidence.	8	duration and frequency. So as I cite in my dose-response section, which I'm trying to
10	A. So negates the evidence? I mean, in	10	find I'm sorry yeah, Page 56 of my report.
11	fact, if you look at influence analyses conducted	11	Q. Which studies show a dose-response?
12	by Taher, it sort of doesn't matter which study	12	A. I mean, this is, you know,
13	you take out and which study you take in. All of	13	references with increased frequency, 51 to 55.
14	the estimates are statistically significant.	14	Duration, 52 to 54. Frequency and duration,
15	Q. If you're going to do a reliable	15	58 48 to 54.
16	meta-analysis, you should include the pertinent	16	Q. Doctor, which studies did you review
17	studies; correct?	17	that show a dose-response?
18	MS. PARFITT: Objection. Misstates his	18	A. These are the studies that I cited.
19	testimony.	19	Q. What page are you looking at?
20	A. Just give me a second.	20	A. Page 56.
21	Yeah. I mean, you have to include the	21	Q. Are there studies that do not show a
22	permanent study but as we know, as we know,	22	dose-response?
23	people have made different decisions, like Taher	23	A. Yes.
24	made separate decisions, Berge has made	24	Q. Do you cite those studies that do not
25	separate the previous analysis made.	25	show a dose-response in your report?

	Page 178			Page 180
1	A. Yes, I do.	1	On 337 there's a table that shows the	1 age 100
1		1 2	Q. On 337, there's a table that shows the risk of ovarian cancer for women who used talc	
2 3	Q. On what page?A. Just give me a second. I know I have	3		
4	cited them, and I'm just trying to find where.	4	daily for one year, one to five years, five to 20 years, and more than 20 years. Is that right?	
5	Yeah. None of the cohort studies were able	5	A. Yes.	
6 7	to conduct meaningful dose-response because they did not collect durational.	6 7	Q. There was only statistical significance	
			for the time periods of one to five years of use	
8	Q. Are those the only studies, the cohort	8	and more than 20 years of use; correct?	
9	studies that did not find a meaningful	9	A. Yes.	
10	dose-response?	10	Q. If there is a dose-response, shouldn't	
11	A. No. There were several	11	there continue to be statistical significance	
12	MS. PARFITT: Objection to form.	12	with increased exposure?	
13	A. There were other case-control studies.	13	MS. PARFITT: Objection. Form.	
14	No. If you take out 41, 55 I mean, these	14	A. Yeah. So that is I'm just	
15	references cite above that are, you know,	15	concluding what they concluded. The trend for	
16	included in the sections, and I talk about their	16	frequency of use was significant, but the trend	
17	dose-response in the respective section.	17	for use years use was flat. And if you look	
18	Q. What is your justification for	18	at Page 337, the last line of that paragraph,	
19	disregarding the studies that did not show a	19	"Even with this imprecision, the trend remained,	
20	dose-response?	20	although the increase was less monotonic."	
21	MS. PARFITT: Objection. Form.	21	Q. When we look at the data, there is only	
22	A. So I did not disregard these studies.	22	a dose-response strike that.	
23	They are included in the report. So, obviously,	23	The data only shows statistical significance	
24	the cohort studies already are, and we can go	24	for one to five years of use. It does not show	
25	through the case-control studies, which did not	25	statistical significance for one year or five to	
	Page 179			Page 181
1		1	20 years; correct?	Page 181
	show dose-response and are included.	1 2	20 years; correct? MS. PARFITT: Objection. Misstates the	Page 181
2	show dose-response and are included. Q. One of the studies you reviewed and	2	20 years; correct? MS. PARFITT: Objection. Misstates the evidence.	Page 181
2 3	show dose-response and are included. Q. One of the studies you reviewed and considered and relied upon was the Cramer 2016		MS. PARFITT: Objection. Misstates the evidence.	Page 181
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	Pag	ge 182		Page 18	4
1	Q. Doctor, if there is a dose-response in		1	that testing to determine how much talcum powder	
2	a study such as the Cramer 2016 paper, looking at		2	reaches a woman's ovary after each application.	
3	the data, shouldn't there continue to be		3	Q. Do you have any idea how much asbestos	
4	statistical significance with increased exposure?		4	reaches a woman's ovaries each time she uses	
5	MS. PARFITT: Objection.		5	talc, assuming that talc powder is contaminated	
6	A. No, no, you don't it doesn't have to		6	with asbestos?	
7	be statistical significance with, you know,		7	MS. PARFITT: Objection. Form.	
8	increased exposure. I mean, you look at the test		8	A. I have not conducted that assessment.	
9	score interaction.		9	Q. How much heavy metal exposure reaches a	
10	So I don't think that, with each category of		10	woman's ovaries, assuming that there are heavy	
11	exposure, you're already you have a power for		11	metals in talcum powder?	
12	a study. Now with each, you're decreasing the		12	MS. PARFITT: Objection. Form.	
13	number of users, so you're not going to get		13	A. I have not conducted that assessment.	
14	statistical significance.		14	Q. Do you know that heavy metals,	
15	Q. Then why do you get statistical		15	chromium, cobalt and nickel, are in vitamins?	
16	significance at greater than 20 years of daily		16	A. Yeah. They are in, you know they	
17	use?		17	are ubiquitous in various other areas as well.	
18	A. Yeah. Because there's differential,		18	Q. They're in food; right?	
19	you know at that point, you know, there's		19	A. I don't know which one is in which.	
20	more there's, you know, more case subjects		20	Yeah. I can't be specific.	
21	have ovarian cancer.		21	Q. In drinking water?	
22	Q. Why do you not have statistical		22	A. I don't know. I don't want to say yes	
23	significance at five to 20 years?		23	to whichever.	
24	A. Because it's underpowered at that time.		24	Q. It's in bottled water?	
25	Q. Why do you not have statistical		25	A. I don't know that.	
					-
	Pag	ge 183		Page 18	5
1	significance at one year?	ge 183	1	Q. Are heavy metals, chromium, cobalt and	5
2	significance at one year? A. It's underpowered.	ge 183	2	Q. Are heavy metals, chromium, cobalt and nickel, considered essential nutrients in the	5
2 3	significance at one year? A. It's underpowered. Q. But it is appropriately powered at one	ge 183	2 3	Q. Are heavy metals, chromium, cobalt and nickel, considered essential nutrients in the body?	5
2 3 4	significance at one year? A. It's underpowered. Q. But it is appropriately powered at one to five years?	ge 183	2 3 4	Q. Are heavy metals, chromium, cobalt and nickel, considered essential nutrients in the body? MS. PARFITT: Objection.	5
2 3 4 5	significance at one year? A. It's underpowered. Q. But it is appropriately powered at one to five years? A. Yes. Based on the number of cases.	ge 183	2 3 4 5	Q. Are heavy metals, chromium, cobalt and nickel, considered essential nutrients in the body? MS. PARFITT: Objection. A. Yeah. I mean, that's, you know,	5
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	Page 186			Page 188
1	you repeat?	1	infer from whatever the biological evidence that	
2	Q. Sure. I'll ask it again.	2	I've reviewed, that there's, you know, evidence	
3	You have no evidence that the blood or	3	that supports biologic probability. There are	
4	tissue levels of any trace heavy metals are	4	some studies that, you know, don't support that	
5	higher in genital talc users compared to	5	claim.	
6	nonusers; correct?	6	Q. My question simply was if you defer to	
7	MS. PARFITT: Objection. Form.	7	other experts on the topic of biologic	
8	A. Yeah. But I do know that there is	8	plausibility.	
9	perineal talc application, and at least from the	9	MS. PARFITT: Objection.	
10	documents I have reviewed, that, you know,	10	Q. You do; correct?	
11	asbestos is present in talc, at least from the	11	MS. PARFITT: Objection. That's not	
12	documents I've reviewed, from the studies that	12	his testimony.	
13	I've reviewed, and from a as you say, the	13	A. I won't just defer to them. I'm just	
14	excerpts of the deposition.	14	providing my own opinion. Yeah. I mean, they	
15	And, you know, whether these are in blood	15	can provide you know, it depends. If it's a	
16	levels or, as you said, in the uterine tissue,	16	plaintiff expert, a defense expert. I mean, how	
17	no, I don't know that.	17	do I know? I can't defer to somebody without	
18	Q. Another Bradford Hill overview factor	18	reading their opinion; right?	
19	is biological plausibility; right?	19	Q. Is all ovarian cancer caused by the	
20	A. Well, it's actually plausibility.	20	same mechanism?	
21	Q. Plausibility means that a biological	21	A. No. And neither is any kind of cancer.	
22	mechanism exists; correct?	22	Q. Different subtypes of cancer have	
23	A. Well, that's what we mean. But if you	23	different biological mechanisms; correct?	
24	actually go back and read Bradford Hill, he was	24	A. Yes. But we are dealing with biologic	
25	talking even about social factors. Yes, but, you	25	plausibility.	
	Page 187			Page 189
1		1	Again, I don't need to know the precise	Page 189
1 2	Page 187 know, we've gone forward and interpreted that as biologic plausibility.	1 2	Again, I don't need to know the precise biological mechanisms to arrive at a causal	Page 189
1 2 3	know, we've gone forward and interpreted that as biologic plausibility. Q. The biological mechanisms of cancer are	1 2 3		Page 189
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	Page 190			Page 192
1	migrates upwards and upwards through the, you	1	A. Yeah. I know that.	
2	know, vaginal canal and migrates to.	2	Q. Ness is an expert for plaintiffs in the	
3	Q. Is that an area of your expertise?	3	talc litigation; is that right?	
4	A. Again, no. But I have reviewed the	4	MS. PARFITT: Objection.	
5	studies, several studies that some studies	5	A. I'm not aware of that.	
6	that I cite, several studies that were added.	6	Q. So Justin, that dealt with glove	
7	And it's quite well accepted, at least in the	7	powder; is that right?	
8	gynecological community, that there's, you know,	8	A. Which one was that, 68?	
9	particulate matter can migrate upwards.	9	Q. 68.	
10	Q. What studies support the theory that	10	A. Yes.	
11	talcum powder applied externally migrates from	11	Q. Isn't it true that that study did not	
12	the perineal region to the ovaries?	12	involve perineal use, but an exam with force to	
13	A. Again, I reviewed various studies on	13	the cervix?	
14	migration.	14	A. Yeah. You know, and I'm relying on it,	
15	Q. Can you name them for me?	15	again, for biologic plausibility. It does not	
16	A. I'm going to look at it.	16	involve talc. So, you know, it's glove powder	
17	Yeah. So I cite several studies in this	17	in	
18	section on migration. And, again, this in the	18	Q. Isn't it true that they found some	
19 20	context of biologic plausibility. Is it	19	particles in women who were examined with	
21	plausible that particulate matter, such as talc, can migrate? And, again	20 21	powder-free gloves? A. Yes.	
22	Q. What page are you looking at?	22	Q. Heller, didn't Heller find talc in	
23	A. Sorry. 57.	23	tissues in all 24 patients, including the 12 who	
24	Q. What studies are you relying on?	24	did not use perineal talc?	
25	A. Yeah. So I'm relying on the studies	25	A. Yes.	
	Page 191			Page 193
1	described by, you know, Heller, 64.	1	Q. What is the evidence in the ovarian	
2	Q. Any others?	2	tissues that have been studied of granulomatous	
3	A. 65.	3	reaction which is what you would see if there wa	s
4	Q. What is 65?	4	a huge amount of talc?	
5	A. I'll have to go take a look.	5	A. Well, I mean, I'm not opining that	
6	It's Henderson, I think, but I don't want	6	there is a huge amount of talc, but others have	
7	to these are big documents. Yeah, it is	7	found talc in the ovaries. I am just my	
8	Henderson.	8	opinion is that it is biologically plausible. I	
9	And then 66 is presence of talc in lymph	9	mean, you know, the FDA has stated that it is	
10	nodes and then	10	biologically plausible for particles, retrograde	
11 12	Q. Who is the author?A. Cramer.	11 12	particles to migrate. And so I'm opining on that. I'm not saying	
13	And then supportive evidence of migration of	13	that talc is in the ovaries and it's inducing	
14	other, you know, particulate matter comes from,	14	this granulomatous reaction. I mean, these	
15	you know, 68, 87 and	15	people have found that it can occur.	
16	Q. 68 is what?	16	And this is sufficient evidence for my	
17	A. 68 is Justin.	17	opinion to support on biologic plausibility.	
18	Q. Eighty is it 87 is what?	18	Other studies, which I cite in my report,	
19	A. Ness.	19	which, you know, for example, monkey models,	
20			couldn't, you know detect didn't detect	
	Q. Is who?	20	couldn't, you know detect didn't detect	
21	Q. Is who?A. Ness. Ness 2000.	20 21	translocation. So there are studies that don't.	
21 22				
22 23	A. Ness. Ness 2000. Q. Cramer is a litigation consultant and expert for plaintiffs in the talc litigation; is	21 22 23	translocation. So there are studies that don't. Q. Can you cite any article that shows granulomas, fibrosis, or adhesions anywhere up	
22	A. Ness. Ness 2000.Q. Cramer is a litigation consultant and	21 22	translocation. So there are studies that don't. Q. Can you cite any article that shows	

	Page 194		Page 196
1	MS. PARFITT: Objection. Form.	1	history of breast cancer, had a tubal ligation or
2	A. I did not review those studies, if	2	hysterectomy, were pre-menopausal or were
3	there are.	3	post-menopausal and used HT."
4	Q. In your report, you say that, "The	4	Is that correct?
5	migration theory is supported by findings of a	5	A. Yeah.
6	deceased risk" strike that.	6	Q. So, in fact, Cramer did find a
7	In your report, you say that, "The migration	7	significantly greater association between talcum
8	theory is supported by findings of a decreased	8	powder use and ovarian cancer for women who had a
9	risk of ovarian cancer with tubal ligation and	9	tubal ligation; is that right?
10	hysterectomy." Pages 18 and 19.	10	A. Yeah. But my my point, in Page 57,
11	Is that right?	11	is that, you know, first of all, that's more than
12	A. Yes.	12	just one Cramer. There are several studies that
13	Q. Don't the studies pertaining to tubal	13	in inferring biologic plausibility, tubal
14	ligation show mixed results?	14	ligation and hysterectomy are protective of
15	A. No.	15	ovarian cancer. It is not that talc in this had
16	MS. PARFITT: Objection.	16	a higher risk among those.
17	A. As far as	17	I mean, those, again, those are not two
18	MS. PARFITT: Sorry.	18	incongruent arguments. I mean, Cramer is making
19	A. I mean, as far as I'm aware, you know,	19	a separate argument that, in his study, he found
20 21	tubal ligation and hysterectomy are protective risk factors for ovarian cancer.	20 21	a higher risk among those who had tubal ligation
22	Q. That's your opinion based upon your	22	or hysterectomy. Q. If you're correct in the opinion that
23	review and analysis of the literature; is that	23	you set forth in your report, you would have
24	right?	24	expected the Cramer study to show a decreased
25	A. Yeah.	25	risk of ovarian cancer for women who had tubal
	71. Touil.	23	Tisk of ovarian cancer for women who had tabar
	Page 195		Page 197
1	Q. Take a look at the Cramer article that	1	ligation or hysterectomy; correct?
2	we referred to before, Exhibit 24. This is	2	MS. PARFITT: Objection. Form.
3	Cramer 2016.	3	Misstates his testimony.
4	Do you have that in front of you?	4	A. Yeah. I mean, I don't I mean,
5	A. Oh, my copy?	5	that's probably, in that study. Yeah.
6	Q. Yes. You have a copy.	6	Q. How do you account for the fact that
7	A. Yes. Which page?	7	Cramer and the authors of this 2016 paper found a
8	Q. Take a look well, Cramer found a	8	significantly greater association among women who
9	significantly greater association between talcum	9	had a tubal ligation or hysterectomy?
10	powder use and ovarian cancer for women who had a	10	A. I have no you know, you can find
11	tubal ligation or hysterectomy. Isn't that true? A. Where is that?	11	different studies have different findings, but,
12 13	Q. Look at the bottom of Page 337 of	12 13	overall, we know that tubal ligation and
	Exhibit 24 to the top of page look at 337.	14	hysterectomy are protective. Q. The Gertig 2000 Nurses' Health Study,
14 15	A. And which table?	15	that's also a study that you have reviewed; is
16		16	that right?
17	Q. I'm sorry. Look at the bottom of Page 337, that carries over to the top of Page	17	A. Yes.
18	339. This is Cramer describing his results; is	18	Q. That study did not show a reduction of
19	that right?	19	ovarian cancer in talc users who have had a tubal
20	A. Yes.	20	ligation; correct?
21	Q. Tell me if I'm reading this correctly,	21	A. Which page is that?
22	and I'm starting at the bottom of Page 337.	22	Q. I'm just asking, based upon your review
23	"By test for interaction, Column 3, the	23	of that study.
24	association was significantly greater for women	24	A. I can't answer. You know, there are so
25	who were African American, had no personal	25	many different can I ask for the Taher
			•

	Page 198			Page 200
1	appendix, because that actually breaks it down by	1	talc users who had a tubal ligation; correct?	1.00
2	tubal ligation and hysterectomy.	2	A. I mean, I think I need to look at the	
3	You're asking very specific questions. I	3	data. I think I don't have it. We are trying	
4	need to have specific materials.	4	to get it, so we'll have to wait.	
5	MR. TISI: I have them.	5	I mean, you're asking me questions. I mean,	
6	Q. What are you asking for?	6	you have to show me documents. I mean	
7	A. You asked a question about tubal	7	Q. Well, you made a statement in your	
8	ligation.	8	report	
9	Q. I understand. What are you asking	9	A. How can I make a statement in the	
10	counsel for plaintiffs to get you?	10	report around Taher, because it wasn't even	
11	A. The Taher appendix.	11	available at that time?	
12	Q. You want to go back and look at the	12	Q. What I'm trying to do is ask you	
13	Taher	13	A. Sure.	
14	A. Appendix. Because they did stratify	14	Q about the statement in your report,	
15	the analysis by hysterectomy and tubal ligation.	15	where you say that, "Migration theory is	
16	Q. That's the 2018, unpublished paper; is	16	supported by findings of a decreased risk of	
17	that right?	17	ovarian cancer with tubal ligation and	
18	A. Yes.	18	hysterectomy."	
19	Q. All right. Did the Houghton as	19	A. And I'm just stating that I just need	
20	they're looking for this	20	to look at a figure in the Taher appendix and	
21	A. Yeah. Sure.	21	then I'll be able to answer that. That's all.	
22	Q. Did the Houghton two thousand strike	22	Q. Well, we saw that Cramer doesn't show	
23	that.	23	that; right?	
24	The Houghton 2014 study also did not show a	24	A. Yes.	
25	reduction of ovarian cancer in talc users who	25	Q. You're not aware that Gertig 2000 or	
	Page 199			Page 201
1		1	Houghton 2014 shows that. Are you?	Page 201
	have had tubal ligation; correct?	1 2	Houghton 2014 shows that. Are you? MS. PARFITT: Objection. Misstates his	Page 201
1 2 3			Houghton 2014 shows that. Are you? MS. PARFITT: Objection. Misstates his testimony.	Page 201
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2 3 4	have had tubal ligation; correct? A. Again, you know, I don't want to agree or disagree with you without just looking at it. I don't think I comment on it. Q. Would you agree or can you agree that both Gertig 2000 and Houghton 2014 were large	2 3 4	MS. PARFITT: Objection. Misstates his testimony. A. You have not shown me that. You have	Page 201
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	parts of Cramer 2016, Gertig 2000, Houghton 2014, Ter Riet 2013, Rosenblatt 2011, Wong 1999, Cook 1997, Harlow 1992, that don't support your position. MS. PARFITT: Counsel completely misstates his opinion. The question misstates A. I don't even know what was the question, and I can't answer that because I don't know what the question was. Q. The question is: When you opined in your report that the migration theory is supported by findings of a decreased risk of ovarian cancer with tubal ligation and hysterectomy, did you pick out just a couple of cases to look at and cite or did you try to see if there was consistency to that finding across all of the studies? A. Yeah. So when I cite that, and you can see the citation, I am trying to make an inference about separate from talc use, and ovarian cancer, you know, is hysterectomy and tubal ligation protective of that. So that's the inference. It's not that each	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	by findings of a decreased risk of ovarian cancer with tubal ligation and hysterectomy. A. Yeah. But it doesn't talk about, you know so if you look at the reference, in case-control studies and meta-analysis, let's look at the references. You know, so, yes, there's one. And if let's look at Q. Okay. Can you cite one reference? A. Yeah. Let's look at that. Q. All right. A. Then let's look at 115. So when I cite 115, that's not even about talc. That's about tubal ligation and hysterectomy, in general, is it you know, so taking talc out of the equation, I'm trying to opine or understand whether tubal ligation and hysterectomy are protective factors, and then I can infer on talc, yes, should only Ness have been cited? Yes, there are other studies otherwise. Q. And there are other studies, many studies A. Yes. Q that do not support your position;	Page 204
24	of these studies, I'm trying to ignore, you know,	24	is that right?	
25	the studies that you mentioned. I'm just trying	25	MS. PARFITT: Objection. Form. His	
	Page 203			
				Page 205
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	to say, as you're looking at mechanisms, what would happen with tubal I'm trying to do the best to explain, tubal ligation and ovarian cancer. If, in the individual studies, yes, as in Cramer, and if we see that in the other studies, then, you know, they provide a different opinion. But I'm trying to make an opinion, based on the general knowledge of tubal ligation and hysterectomy being, you know, protective. Q. Do you agree with me, to have a scientifically valid opinion A. Sure. Q you need to look at all of or at least the important studies; correct? A. Yeah. I did look at these studies. Q. And, in fact, a number of the studies that you cite in your report A. Sure.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	position on tubal ligation? MR. ZELLERS: Yes. MS. PARFITT: Thank you. A. Yeah. So it's it's I think there's I mean, whether Ness and others should have been cited there, that's a valid point. But when I make a point about tubal ligation and hysterectomy, it's a general point on the, you know, migration hypothesis. BY MR. ZELLERS: Q. You should at least cite to or make some reference A. Yeah. Q right, to the studies that do not support that position? A. Yeah. And I think that I have made it in the individual sections, and I can try to look for it, but it will take us time there. Q. Isn't there evidence that if tubal	

	•	D 206		D.	200
		Page 206		Pag	ge 208
1	A in, you know, this area to provide,		1	concentration in the rectal, vulvar, vaginal,	
2	you know, why it would do that.		2	cervical, and uterine tissues which are closer to	- 1
3	Q. Did you review or are you familiar with		3	the area of the initial exposure; correct?	- 1
4	Tiourin, T-I-O-U-R-I-N, a 2015 study?		4	MS. PARFITT: Objection. Misstates his	- 1
5	A. Did I cite that? I don't remember.		5	testimony.	- 1
6	Q. Are you is that study familiar to		6	A. I just don't have an opinion in terms	- 1
7	you?		7	of where it will be high or low. Because that's	- 1
8	A. I just can't remember the names. There		8	not my area of expertise.	- 1
9	are so many studies. If you show it to me, I		9	Q. Talc particles should be causing	- 1
10	can		10	inflammation in all those organs and areas;	- 1
11	Q. I'll show it to you. You can tell me		11	correct?	- 1
12	if it's familiar to you. And if it's not, I'll		12	MS. PARFITT: Objection.	- 1
13	move on.		13	A. Again, that's that's, you know, I'm	- 1
14	(Article entitled "Tubal		14	opining on biological plausible mechanisms of	- 1
15	Ligation Induces Quiescence in the		15	talc-induced ovarian cancer. I didn't look at,	- 1
16	Epithelia of the Fallopian Tube Fimbria"		16	you know, whether it's vaginitis or vulvar or	- 1
17	marked Exhibit 25.)		17	whether it's, you know, rectal inflammation. And	- 1
18	MR. ZELLERS: 25 is the		18	that's not my area of expertise again.	- 1
19	A. No, it's not. I don't know about.		19	Q. In fact, there are no studies that show	- 1
20	BY MR. ZELLERS:		20	inflammation as a result of genital talc use in	- 1
21	Q. For the record, 25 is a 2015 study by		21	any of those areas; correct?	- 1
22	Tiourin, T-I-O-U-R-I-N.		22	MS. PARFITT: Objection. Misstates the	- 1
23	That's not a study that you reviewed or		23	evidence.	- 1
24	considered; is that right?		24	A. Again, I have not you know, my	- 1
25	A. You know, I have to go through all the		25	testimony and report on talcum powder products	- 1
23	71. Tou know, Thave to go unough an the		1	testimony and report on talearn powder products	
		Page 207		Pag	ge 209
1		Page 207	1		ge 209
1 2	references, but I can't recall straight off	Page 207	1	and inflammation is looking at, are there	ge 209
2	references, but I can't recall straight off whether it does.	Page 207	2	and inflammation is looking at, are there biological plausible mechanisms.	ge 209
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- studies on the relationship between ovarian cancer and using diaphragms that are dusted with talcum powder; is that right?
 - A. Yes.

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- Q. A diaphragm is inserted directly onto a woman's cervix; is that right?
 - A. Yes.
- Q. On Page 26 of your report, you say
 that, "This meta-analysis is flawed because it
 only focuses on powder-dusted diaphragms";
 correct?
 - A. Well, no. That's not the only flaw. I mean, there are several other flaws, including exclusion of loss category, data extraction analysis, which is, you know, really inclusion of inability studies that did not disaggregate.

I mean, the question is if you're asking about perineal exposure, yes, perineal -- diaphragms is one route of exposure. But that's not the only route of exposure that you should be concerned about.

Q. Do you state in your report, "The most important limitation with the Huncharik 2007 meta-analysis was its exclusive focus on talc powder-dusted diaphragms as the route of

- means that you cannot exclusively focus on one
 route of exposure. So it does not mean that it
 cannot in and of itself. You have to look at
 perineal-dusted diaphragm. You have to look at,
 other, you know, perineal applications.
 - Q. So putting aside inhalation for the moment, your opinion is that talcum powder travels from the perineal region to the ovaries through the woman's reproductive tract; is that right?
 - A. I mean, I don't even know through the ovaries. I know it migrates upwards. That's, you know, my opinion.
 - Q. So talcum powder must travel past the labia, through the vagina, through the cervix, and then to the uterus; is that right?
- 17 A. Yes. It migrates upwards through the 18 vagina, you know, the tract.
- Q. And then the powder travels through the uterus and into the fallopian tubes to reach the ovaries; is that right?
- A. Well, I mean, I'm not -- again, I don't intend to elucidate, you know, the precise link that a study has shown that talcum powder -- I think we answered this earlier, I answered this

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- exposure, which could not inherently address the causal question of whether genital talcum powder dusting is associated with increased risk of ovarian cancer"?
 - Is that what you said?
- MS. PARFITT: Counsel, do you have a copy of the -- otherwise, may I show him the Huncharik study so he's got it in front of him?
- MR. ZELLERS: I'm just asking general questions right now. That was just a question, does he say that in his report. If he needs to review the study, then he can look at the study.
 - MS. PARFITT: I would appreciate that.
- 14 MR. ZELLERS: Sure.
 - MS. PARFITT: I just didn't want to pass something to him without your permission.
 - A. Yeah. I do state that.
 - Q. You say that, "Studies on the use of talcum powder-dusted diaphragms cannot address the question of whether perineal use is associated with an increased risk of ovarian
- 22 cancer"; correct?
- A. Where is that?
- Q. It's what we just read.
- A. No. It doesn't mean that. It just

- earlier -- that I am not aware of one study that
 shows that. But, you know, several shows that
 talc ends up in the ovaries.
 - Q. Well, given how talc, talcum powder must travel to reach the ovaries, how can you exclude data about the relationship between ovarian cancer and talcum powder that is applied directly to the cervix?
- 9 MS. PARFITT: Objection. Misstates his 10 testimony.
- 11 A. Nobody is excluding data. So this is 12 not exclusion of this data.
- But I am saying that this particular question of talc-dusted diaphragms, A, is an exclusive focus on one route of exposure, so it does not answer the causal question about perineal exposure.
 - And, two, it is not excluded. It's included and discussed and several flaws are noted, including, you know, data extraction errors for the most part, inclusion of studies.
- the most part, inclusion of studies.
 And so -- and as can you see in my
 methodological rating of meta-analyses, it is
 weighted differently than others. So it is not
 excluded.

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Sonal Singh, M.D., M.P.H.

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Page 214

Q. But you state, as the most important limitation of the Huncharik 2007 study, is the exclusive focus on talc powder-dusted diaphragms.

A. Yeah.

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Q. And those diaphragms are applied directly to the cervix; is that right?

A. Yeah. Because -- because of its exclusive focus. If the study had, you know, other routes of exposure, yeah.

What I'm trying to say is its exclusive focus on one route of exposure cannot -- if you're just asking the question about dust, dusted diaphragm, then don't make inferences about perineal routes of exposure. You have to look at broader exposures.

- Q. On what studies are you relying to say that talcum powder affects the body differently when it is applied to the perineal region and travels to the cervix compared to when it is applied directly to the cervix?
- A. I have not made a distinction between those studies.
- Q. And, in fact, when applied to the perineal region, the talcum powder would also be in close contact with a woman's urethra; is that

don't know anything about. I don't -- you know, I haven't reviewed it to answer that question.

Page 216

Q. Do you have an opinion on whether inhaled talc can migrate to the ovaries?

A. Yeah. I mean, I think the primary route of exposure is, you know, reproductive, but there are some potential, I would say, you know, potential plausible mechanisms that, you know, when perineal application is applied, it can get inhaled through the lungs and potentially reach the ovaries. But I think that that mechanism is probably not as plausible as the reproductive mechanism.

Q. Well, in fact, studies of talcum powder use failed to show a statistically significant association between nongenital use of talcum powder and ovarian cancer; correct?

MS. PARFITT: Objection. Form.

A. Yeah. And I've cited those studies.

Q. If inhaled talc could migrate to the ovaries, wouldn't you expect to see increased ovarian cancer risk with nongenital use of talcum powder?

24 MS. PARFITT: Objection.

A. Well, I mean, it also depends on, you

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right?

MS. PARFITT: Objection. Form.

A. Yeah. I mean, anatomically.

Q. Substances are capable of traveling up the urethra; correct?

A. I mean, yes. Just as we agree that, you know, tale can migrate upwards, substances can migrate through the urethra. If you agree tale can migrate upwards, then, you know, substances can migrate through the urethra.

- Q. Women get urinary tract infections when bacteria travels up the urethra; correct?
 - A. Yeah.
- Q. But studies do not show an increase in bladder cancer with talcum powder use, do they?

MS. PARFITT: Objection to form.

A. I did not ask the causal question about that. And, you know, I have not evaluated. Maybe there are studies that show decreased risk for all that I know. I just can't answer that question.

- Q. And studies do not show an increase in rectal cancer with talcum powder use; is that right?
 - A. I don't answer the questions that I

Page 217

know, the quantity of inhalation, the degree of
talc that's -- and I don't know enough about that
to say that, yes, there's a sufficient quantity,
you know, migration to cause that. I don't know

5 which studies have evaluated sort of inhaled tale and ovarian cancer.

6 and ovarian cancer.7 O. Well, let's lo

Q. Well, let's look back at Cramer 2016, Page -- or Exhibit 24. Do you have that in front of you?

A. Yeah.

Q. In that study, Cramer found no apparent risk associated with nongenital talc use; isn't that correct?

A. Yeah. And I think I cite that in my report, too.

- Q. You don't disagree that Cramer, in his study, 2016, did find no apparent risk associated with nongenital talc use; correct?
 - A. Yeah.

Q. The same result was found in the pooled analysis that was done by OCAC, Ovarian Cancer

22 Association Consortium; is that right?

MS. PARFITT: Objection. Which study are you referring to? What year? There have been many studies by OCAC.

occir many studies by Ocric.

	Page 218		Page 2	220
1	MR. ZELLERS: I'm referring to Page 341	1	mechanisms that have been shown in terms of	0
2	of the Cramer article. Page strike that.	2	increase in, you know, inflammatory enzymes, and	
3	The second and third paragraphs.	3	increase in alterations of redox potential that	
4	BY MR. ZELLERS:	4	are some of the potential plausible biological	
5	Q. Tell me when you have that, Doctor.	5	mechanisms. Again, other people who are	
6	A. 341. Discussion?	6	biological experts will opine on them and detract	
7	Q. Yes. So in the second and third	7	from the strengths and weaknesses.	
8	paragraph, I'm reading the second sentence.	8	Q. You have not done an expert review of	
9	"Talc use regularly" strike that.	9	inflammation evidence yourself; correct?	
10	"Tale used regularly in the genital area was	10	A. When you say I mean, expert review	
11	associated with a 33 percent increase in ovarian	11	of inflammation.	
12	cancer risk overall while no apparent risk was	12	MS. PARFITT: Object.	
13	associated with talc used only in nongenital	13	Q. You're deferring to other experts on	
14	areas."	14	the topic and subject of inflammation; is that	
15	A. Yeah. And I agree with their opinion.	15	right?	
16	Q. All right. Do you also agree with the	16	MS. PARFITT: Objection.	
17	next sentence? "Our results are consistent with	17	A. Yeah. I mean, other experts, I mean, I	
18	the recent pooled analysis from the OCAC which	18	can look at the evidence and see, A, one, that	
19	reported that use of powder on genitals is	19	inflammation plays a role in cancer. Two,	
20	associated with a 24 percent increased risk and	20	inflammation plays a role in ovarian cancer.	
21	no effect of nongenital use of talc."	21	At least my opinion is that, you know, talc	
22	A. Yeah.	22	can, you know, induce inflammation; others will	
23	Q. Have you ever performed any study	23	provide more detailed opinion.	
24	yourself pertaining to whether inhaled talc can	24	Q. In terms of the mechanism by which	
25	migrate to the ovaries?	25	ovarian cancer may or may not be related to	
	<i>6</i>			
				-
	Page 219		Page 2	221
1	Page 219 A. No. And I would have a different job.	1	inflammation, you are deferring to other experts;	221
2	A. No. And I would have a different job. That's not my area of expertise.	2	inflammation, you are deferring to other experts; correct?	221
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	Page 222			Page 224
1	question?	1	Q. Rheumatoid arthritis doesn't increase	-
2	MS. PARFITT: Listen carefully to the	2	the risk of ovarian cancer, does it?	
3	question.	3	A. I don't know that question. I have not	
4	MR. ZELLERS: Okay. Again,	4	evaluated it.	
5	Ms. Parfitt, let the witness handle himself.	5	Q. Psoriasis does not increase the risk of	
6	He's an experienced, capable person.	6	ovarian cancer, does it?	
7	MS. PARFITT: Yes. I would certainly	7	A. For all, it could. We don't know that.	
8	both agree with that. He's quite good.	8	We can spend time reviewing that. We can't	
9	(The question was read by the	9	answer questions.	
10	reporter, as requested.)	10	Q. We're here to talk about the science;	
11	MS. PARFITT: Objection. Misstates his	11	correct?	
12	testimony.	12	A. Yeah. So the science, you have to	
13	A. No. To the extent that my causal	13	look I haven't looked at psoriasis and cancer.	
14	question needs you know, evaluated the	14	I haven't looked at, for example, rheumatoid	
15	evidence on the link between, you know,	15	arthritis increases cardiovascular disease,	
16	inflammation, ovarian cancer and talc and	16	because I've looked at it. I can't answer	
17	inflammation, I can opine that, you know, this	17	questions that I haven't looked at.	
18	link supports my causal opinion. Whereas, to the	18	Q. Have you done an expert review of the	
19	precise details of such a link, I would obviously	19	role of inflammation in causing ovarian cancer?	
20	defer to other experts.	20	Have you personally done that review?	
21	BY MR. ZELLERS:	21	A. No. I have just looked at, you know,	
22	Q. Not all inflammatory conditions lead to	22	what is the role of inflammation in ovarian	
23	cancer; correct?	23	cancer, and are there plausible biological	
24	A. Yes. And there are pro-oxidant	24	mechanisms that either support or refute whether	
25	conditions and there are antioxidants. And I	25	talc can induce inflammation.	
	Page 223			Page 225
1	Page 223 examined the evidence which relates to if there	1		_
1 2	examined the evidence which relates to if there	1 2	Q. How does an acute inflammatory response lead to cancer?	_
			Q. How does an acute inflammatory response	_
2	examined the evidence which relates to if there were you know, if talcum powder products, for	2	Q. How does an acute inflammatory response lead to cancer?	_
2 3	examined the evidence which relates to if there were you know, if talcum powder products, for example, had antioxidants or, in the Saed study, they increased the level of antioxidant enzymes, then that would be evidence against the link	2 3	Q. How does an acute inflammatory response lead to cancer? A. Yeah. I mean, and I'm not making a case for an acute inflammatory. I'm not sure. Did I state that? You know, this is a chronic	_
2 3 4	examined the evidence which relates to if there were you know, if talcum powder products, for example, had antioxidants or, in the Saed study, they increased the level of antioxidant enzymes,	2 3 4	Q. How does an acute inflammatory response lead to cancer? A. Yeah. I mean, and I'm not making a case for an acute inflammatory. I'm not sure. Did I state that? You know, this is a chronic inflammatory process.	_
2 3 4 5 6 7	examined the evidence which relates to if there were you know, if talcum powder products, for example, had antioxidants or, in the Saed study, they increased the level of antioxidant enzymes, then that would be evidence against the link between redox potential and talc and ovarian cancer. So there are various pieces of the	2 3 4 5 6 7	Q. How does an acute inflammatory response lead to cancer? A. Yeah. I mean, and I'm not making a case for an acute inflammatory. I'm not sure. Did I state that? You know, this is a chronic inflammatory process. Q. What evidence is there that externally	_
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	Page 226		Page 22	28
1	finding?	1	A. Yeah. And I think it's the studies on	- 1
2	MS. PARFITT: Objection. Form.	2	NSAIDs. I don't remember the precise I don't	- 1
3	A. So I'll step back and share with you	3	know if yeah. It's Ness or	- 1
4	what epidemiology.	4	Q. I will and do intend to ask you a few	- 1
5	Yeah. I mean, ovarian cancer, the incidence	5	questions about NSAIDs and about some of those	- 1
6	of ovarian cancer is, what, 11 by 100,000. It's	6	studies.	- 1
7	a very rare cancer. Even if 50 percent use it,	7	A. I think that's where	- 1
8	you know, it increases, you know, it affects it.	8	Q. Well, let me talk about or ask you a	- 1
9	So we are not nobody is saying that,	9	question about a study that you do cite in	- 1
10	yeah, every woman who gets talc will get it. So	10	support of your inflammation opinion. You rely	- 1
11	just because there's an increased risk with talc,	11	on is it Saed 2018 article?	- 1
12	how much of the U.S. population should get	12	A. Yes.	- 1
13	ovarian cancer is a different question. That's	13	MR. ZELLERS: I'll hand you the Saed	- 1
14	not what I estimated.	14	2018 paper.	- 1
15	That's you're asking a question about	15	(Article entitled "New Insights	- 1
16	attributable risk and population attributable	16	into the Pathogenesis of Ovarian Cancer:	- 1
17	risk. Some have attributed it to 10 percent,	17	Oxidative Stress" marked Exhibit 26.)	- 1
18	40 percent. I haven't done that estimation.	18	MS. PARFITT: Thank you.	- 1
19	MR. KLATT: Move to strike.	19	MR. ZELLERS: We'll mark that as	- 1
20 21	Nonresponsive. MR. ZELLERS: Join.	20 21	Deposition Exhibit 26. BY MR. ZELLERS:	- 1
22	Q. Granulomas, fibrosis or adhesions don't	22	Q. This is a study that you cite in	- 1
23	cause ovarian cancer; correct?	23	support of your position; is that right?	- 1
24	MS. PARFITT: Objection.	24	A. I don't know if I cite it as a support	- 1
25	A. I'm not aware of precise biological	25	of my position. I cite it as an article that	- 1
23	74. Thi not aware of precise biological	23	of my position. Telle it as an article that	- 1
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			-
1	A. So is this the study or is this just	1	users?
2	their review article?	2	A. Yeah. So I don't know if that's
3	Q. This is the paper that you cite to in	3	consistently. But as I mentioned earlier, and I
4	your report.	4	may have cited it in this study, that when I
5	A. Can you point out in my report which	5	talked about Ness, and I'm trying to find it,
6	reference number is that? I know I've cited	6	but, yes, there is, you know, NSAIDs have not
7	them, but I'm just trying to orient myself.	7	been they don't consistently reduce the risk
8	Q. Are you familiar with this paper? Have	8	of ovarian cancer, but in some studies, they have
9	you looked at it before?	9	shown to reduce the risk of ovarian cancer.
10	A. Yes. I have looked at this paper, but	10	Q. If, in fact, inflammation was a
11	they also have other abstracts and other papers.	11	causative factor in ovarian cancer, and if NSAIDs
12	I think that's what I was relying on.	12	and aspirin use reduce inflammation, wouldn't you
13	Yeah. So I'm relying on this and 125, Saed.	13	expect some consistency in the studies that would
14	Q. The authors in this paper that you	14	show NSAIDs and aspirin use reduced the incidence
15	support strike that that you cite and are	15	of ovarian cancer?
16	relying on do not identify what either the	16	A. So, first of all, you're asking a broad
17	positive or the negative controls were; correct?	17	question. Inflammation. What do you mean by
18	MS. PARFITT: Objection. Misstates the	18	that?
19	evidence.	19	And I don't know yeah. Exactly. So I
20	A. Let me just look at 125, and then I'll	20	don't know the precise biological mechanisms of
21	answer the question.	21	ovarian cancer. And just because the ovarian
22	No. That's not 125.	22	cancer-mediated inflammation is different from,
23	Q. I'll move on and ask another question.	23	you know, anti-inflammatory, so both may be
24	A. Sorry about that.	24	entirely consistent, I'm not saying they are, but
25	Q. That's all right.	25	both mechanisms, you could have NSAID-induced
		-	
	D 221		D 222
	Page 231		Page 233
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1 2	Saed references unpublished data; correct? MS. PARFITT: Objection.	2	reduce inflammation and NSAID-induced increase inflammation. That's just not what that area
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	Page 234		1	Page 236
1	"However, the use of powder on medical	1	is that right?	230
	gloves presents numerous risks to patients and	2		
2 3	healthcare workers, including inflammation,	3	A. I don't disagree what I am trying to define precisely confounding is that, you know,	
4	granulomas, and respiratory allergic reactions."	4 5	it creates a different relationship, had the	
5	Did I read that right? A. Yeah.		confounder not been present, and I'm just trying	
6		6 7	to say how it does that. It's associated with the outcome. It's	
7	MS. PARFITT: Do you know where it is?			
8	Mm-hmm.	8	associated with the exposure and not, you know,	
9 10	A. Okay.	10	and not on the	
	Q. Why, then, given that, would cornstarch		Q. Let's use an example, so we're sure	
11 12	be considered a superior alternative to tale?	11 12	we're talking about the same thing.	
13	MS. PARFITT: Objection. Form.		If you are studying the association between	
	A. Am I did I state in my I mean,	13	coffee and pancreatic cancer, you need to be	
14	you know, I'm not evaluating the causal role of	14	mindful of whether cigarette smoking is more	
15	cornstarch and, you know, its role in ovarian cancer. I'm not even aware of the existence of	15	common in coffee drinkers than in the rest of the	
16		16 17	population; correct? A. Yes.	
17	this document and what it pertains to.			
18	I don't see any reference to cornstarch	18 19	Q. Cigarette smoking could be a confounder	
19	here. I don't evaluate how they regulate various		in that situation; is that true?	
20	products, whether it's food or cornstarch.	20	A. Well, so there are several parts to that. Just because it's more common in coffee	
21	Q. Are you familiar with the term "confounding"?	21 22	drinkers does not make it a confounder. To make	
22 23	A. Yes.			
		23	a confounder, you have to have three specific.	
24	Q. That's where the presence of another	24	What you're talking is, yeah, it's associated with coffee. But is it associated with	
25	association confuses the relationship between the	25	with corree. But is it associated with	
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Case 3:16-md-02738-MAS-RLS Document 9733-21 Filed 05/07/19 Page 62 of 95 PageID: 35991 Sonal Singh, M.D., M.P.H.

	Page 238		Page 240
1		1	
2	MS. PARFITT: Objection. A. Sorry. Can you repeat the question?	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	But most importantly, just because, A, first of all, are they associated with the outcome?
3	MS. PARFITT: Here it is.	3	Then you have to ask, are they causally
4	Q. Sure. Residual confounding is possible	4	associated, and they would have to be associated
5	in every observational study; correct?	5	with the exposure talc to be considered a
6	A. Observational. Yeah.	6	confounder, just because they're a risk factor.
7	It is possible; right? Is that what you	7	Every risk factor need not be controlled in a
8	said?	8	study. You have to be associated with the
9	Q. Yes.	9	exposure to, you know, consider the confounder.
10	A. Yeah. Residual confounding is possible	10	That is the precise definition of
11	because you can't measure, you know, every	11	confounding, is you have to be associated with
12	variable that you can think of.	12	the exposure. You have to be associated with the
13	Q. And unmeasured confounders may be	13	outcome. And you can't be on the path.
14	present in every observational study; correct?	14	So just because chlamydia let me finish.
15	A. Yeah. There's always the potential for	15	Chlamydia, A, has a risk factor of ovarian
16	unmeasured confounding. It doesn't mean that it	16	cancer. If I design a study tomorrow for X and
17	exists.	17	ovarian cancer, you know, I'm not going to
18	Q. It's impossible to say that all known	18	consider it a confounder for my analysis.
19	and unknown confounding factors have been	19	Q. Confounders can distort the results in
20	controlled for in any given study; correct?	20	epidemiological studies; correct?
21	A. You don't you know, what you don't	21	MS. PARFITT: Objection. Form.
22	know, you can't control for.	22	A. Yeah. We've discussed that, I think.
23	Q. In this case, new factors possibly	23	THE WITNESS: We'll take a break. If
24	involved in ovarian cancer are just being	24	you want to finish this confounding thing.
25	published in the literature; is that right?	25	MR. ZELLERS: No. We can take a break
	Page 239		Page 241
1	MS. PARFITT: Objection. Vague.	1	now.
2	A. Yeah. I don't I don't know what	2	MS. PARFITT: Good. Thank you.
3	you're like just give me an example so I	3	THE VIDEOGRAPHER: This ends Media 3.
4	can	4	Off the record, 2:17 p.m.
5	Q. Okay. History of chlamydia infection	5	(A recess was taken.)
6	and history of weight gain during adolescence are	6	THE VIDEOGRAPHER: Here begins Media
7	two recent examples that are being published in	7	No. 4 in today's deposition of Sonal Singh, MD,
8	the literature as factors possibly involved with	8	M.P.H. Back on the record, 2:29 p.m.
9	ovarian cancer; correct?	9	BY MR. ZELLERS:
10	MS. PARFITT: Objection. Form.	10	Q. Dr. Singh, in your report, at Page 54,
11	A. I haven't seen them. But I mean,	11	Paragraph 7, you address the subject of
12	weight gain has been adjusted for in several of	12	confounding in studies of talcum powder use and
		10	
13	the analyses. So I don't know about that. Yeah.	13	ovarian cancer; is that right?
13 14	the analyses. So I don't know about that. Yeah. Q. Well, let's assume	14	A. Yes.
13 14 15	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia.	14 15	A. Yes. Q. On Page 54 of your report, you state,
13 14 15 16	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct.	14 15 16	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian
13 14 15 16 17	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia	14 15 16 17	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them
13 14 15 16 17 18	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during	14 15 16 17 18	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account
13 14 15 16 17 18 19	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled	14 15 16 17 18 19	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been
13 14 15 16 17 18 19 20	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled for in any of the published talc-ovarian cancer	14 15 16 17 18 19 20	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been reported, they would have to be strongly
13 14 15 16 17 18 19 20 21	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled for in any of the published talc-ovarian cancer studies, were they?	14 15 16 17 18 19 20 21	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been reported, they would have to be strongly correlated with talc use. Family history,
13 14 15 16 17 18 19 20 21 22	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled for in any of the published talc-ovarian cancer studies, were they? MS. PARFITT: Objection. Form.	14 15 16 17 18 19 20 21 22	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been reported, they would have to be strongly correlated with talc use. Family history, ethnicity, obesity and some reproductive risk
13 14 15 16 17 18 19 20 21 22 23	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled for in any of the published talc-ovarian cancer studies, were they? MS. PARFITT: Objection. Form. A. Yeah. So if they're not known, first	14 15 16 17 18 19 20 21 22 23	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been reported, they would have to be strongly correlated with talc use. Family history, ethnicity, obesity and some reproductive risk factors are positively associated with the risk
13 14 15 16 17 18 19 20 21 22	the analyses. So I don't know about that. Yeah. Q. Well, let's assume A. We're talking about chlamydia. Q. Let's assume that that's correct. Those factors, history of chlamydia infection and history of weight gain during adolescence, those factors were not controlled for in any of the published talc-ovarian cancer studies, were they? MS. PARFITT: Objection. Form.	14 15 16 17 18 19 20 21 22	A. Yes. Q. On Page 54 of your report, you state, "Although there are some risk factors for ovarian cancer," and then it continues, "for any of them to be confounding to an extent that could account for the positive relations that have been reported, they would have to be strongly correlated with talc use. Family history, ethnicity, obesity and some reproductive risk

	Page 242			Page 244
1	Page 242	1	Consolly is that right?	rage 244
$\frac{1}{2}$	introduce enough confounding either jointly to	2	Cancer"; is that right?	
2 3	explain completely the positive associations." And it should be the positive association.	$\frac{2}{3}$	A. If I haven't, then I haven't. Yeah.Q. You did put it on your additional	
4	A. Yes.	4	materials and data considered.	
5	Q. Is that the statement that you make?	5	Do you see that?	
6	A. Yes.	6	A. Yes.	
7	Q. There's no citation for that statement;	7	Q. It's on the last page.	
8	is that right?	8	MR. ZELLERS: I'm going to mark that	
9	A. Yes. But partly because I couldn't	9	paper as Exhibit 28.	
10	find evidence and, you know, about the risk of	10	(Document entitled	
11	talcum powder use and these risk factors. And so	11	"Interpretation of Epidemiologic Studies on	
12	that so the issue that I prior to the	12	Talc and Ovarian Cancer" marked	
13	statement, states that these other risk	13	Exhibit 28.)	
14	factors, which we know are risk factors for	14	MS. PARFITT: Thank you.	
15	ovarian cancer.	15	MR. ZELLERS: You're welcome.	
16	Q. Is this your statement that you made	16	BY MR. ZELLERS:	
17	here?	17	Q. Do you see Exhibit 28 in front of you?	
18	A. Yeah. Let me just explain what I did	18	A. Yes.	
19	here.	19	Q. Exhibit 28 is an article prepared by	
20	Q. That was a simple question.	20	Kenneth Rothman entitled "Interpretation of	
21	A. Yeah. It is my statement.	21	Epidemiologic Studies of Talc and Ovarian	
22	Q. Have I read your statement?	22	Cancer."	
23	A. Yes. But it is about the fact that we	23	Is that right?	
24	don't have, you know, family history, ethnicity,	24	A. Yes.	
25	obesity and reproductive factors associated, but	25	Q. Take a look at Page 5 of that paper,	
	Page 243			Page 245
1		1	the second paragraph.	Page 245
1 2	these associations, as it relates to talc use, we	1 2	the second paragraph. Do you see where	Page 245
1 2 3	these associations, as it relates to talc use, we don't have data on how these to be considered	1 2 3	Do you see where	Page 245
2	these associations, as it relates to talc use, we	2	Do you see where A. Confounding, you're talking about?	Page 245
2 3	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with talc use. We don't have data on that.	2 3	Do you see where	Page 245
2 3 4	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with	2 3 4 5 6	Do you see where A. Confounding, you're talking about? Q. Yes. Where Rothman discusses confounding? A. Yeah.	Page 245
2 3 4 5	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with talc use. We don't have data on that. Q. My question just is: Did you write	2 3 4 5	Do you see where A. Confounding, you're talking about? Q. Yes. Where Rothman discusses confounding? A. Yeah. Q. Other than the list of four risk	Page 245
2 3 4 5 6	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with talc use. We don't have data on that. Q. My question just is: Did you write that? A. I did. Yeah. Q. All right. Now, do you know who Ken	2 3 4 5 6 7 8	Do you see where A. Confounding, you're talking about? Q. Yes. Where Rothman discusses confounding? A. Yeah. Q. Other than the list of four risk factors in parentheses, you just copied the	
2 3 4 5 6 7 8 9	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with talc use. We don't have data on that. Q. My question just is: Did you write that? A. I did. Yeah. Q. All right. Now, do you know who Ken Rothman is?	2 3 4 5 6 7 8 9	Do you see where A. Confounding, you're talking about? Q. Yes. Where Rothman discusses confounding? A. Yeah. Q. Other than the list of four risk factors in parentheses, you just copied the language from Dr. Rothman's article and pasted in	
2 3 4 5 6 7 8 9 10	these associations, as it relates to talc use, we don't have data on how these to be considered a confounder, they have to be associated with talc use. We don't have data on that. Q. My question just is: Did you write that? A. I did. Yeah. Q. All right. Now, do you know who Ken Rothman is? A. Yeah. He has written a textbook on	2 3 4 5 6 7 8 9	Do you see where A. Confounding, you're talking about? Q. Yes. Where Rothman discusses confounding? A. Yeah. Q. Other than the list of four risk factors in parentheses, you just copied the language from Dr. Rothman's article and pasted i into Page 54 of your report; correct?	
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	Page :	246	Ī	Page 248
1	MR. ZELLERS: Okay.	1	factors, family history, obesity and reproductive	
2	A. I may have failed to cite that article.	2	history," what else is different? Show me one	
	ou know, it's okay. I mean, it's not okay, but	3	word that is different	
	n just saying I may have failed to cite that	4	A. Yeah.	
	ticle.	5	Q between what you've written here and	
6	Q. Do you agree that the entire first part f Rothman on confounding that you have cited	7	what is written by Rothman in his paper.	
	ord for word in your report, and you can start	8	A. Yeah. It isn't, and I should have cited it.	
	ith "although there have been some strong risk	9	Q. All right. The paper by Rothman and	
	actors for ovarian cancer, for any of them to be	10	others well, strike that.	
)	onfounding."	11	A. And where was this published, just I	
12	A. Yeah.	12	mean, it doesn't have a citation in it.	
13	Q. If you read the rest, all the way	13	Q. If you're going to copy it word for	
	rough the next couple of sentences, down to	14	word	
	positive association," it's	15	A. I did not.	
16	A. Yeah.	16	MS. PARFITT: Excuse me. Object to the	
17	Q word for word; right?	17	question. Don't be argumentive, Counsel. He	
18 10 pc	A. Yeah. I wouldn't say I copy and	18	said he didn't cut and paste it. He said he	
19 pa 20 it.	asted. I would say that I have not referenced	19 20	failed to cite it. That's his testimony. A. You can, you know, go forward and say	
21	Q. You copied and pasted it.	20 21	that.	
22	A. No. I did not. I read it, and I wrote	22	Q. The question is: You don't know let	
	And I did not reference it.	23	me withdraw that. You're looking at something.	
24	Q. You didn't write it. It's exactly word	24	A. Yeah. Go ahead and ask the question.	
25 fo	or word from the Rothman paper	25	Q. You thought that this was a reliable	
		245		240
	Page	247		Page 249
1	A. No. It isn't.	1 1	cource correct')	
2 3 pa			source; correct?	
) 1)2	Q with the exception of you added, in	2	A. Yes. And I did not cite it.	
	arentheses	2 3	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?	
4	A. Yeah.	2 3 4	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?A. Yes.	
5	A. Yeah. Q "genetic risk factors, family	2 3 4 5	A. Yes. And I did not cite it.Q. The Rothman paper, Exhibit 28?A. Yes.Q. All right. Now	
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4 5 6 hi 7 th 8 9 yo 10 w 11 di 12 13 co 14 15 16 te 17 18 ci 19 20 21 di 22	A. Yeah. Q "genetic risk factors, family istory, obesity and reproductive history"; is nat right? A. Yeah. And I didn't cite it, but so ou look at a study and a paper, and, you know, I rote it. And I was remiss in not citing it. I idn't copy and paste it. Q. Well, you copied it word for word; orrect? A. I did not. MS. PARFITT: Objection. Misstates his estimony. A. I'm saying what I did. But I did not te it. Q. The fact are the facts. A. Well, the facts are that the content is different and I did not cite it. Q. What content is different other than	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. And I did not cite it. Q. The Rothman paper, Exhibit 28? A. Yes. Q. All right. Now A. Well, it's a source. I mean, it's in with other source that I rely on. Q. At least in these couple of sentences A. In the paragraph. Q you agree; correct? A. Yeah. MS. PARFITT: Agree what? Agree what? Q. Agree that the the two sentences from Rothman are the same two sentences as in his report and does he agree with those two sentences? A. Well, obviously, the risk factors are different, because I know more about the risk factors since 2000. And but the point that I'm trying to make, and as you can see the language is the same, and it should have been	S

		Page 250		Page 252
1	expert, to be fair and to cite information,		1	MS. PARFITT: No worries. No worries.
2	positions on that both support and refute your		2	A. Which line are you in there?
3	position and plaintiffs' position; correct?		3	Q. Sure. Look at "recall bias." Does the
4	A. Well, it's not about their position,		4	third sentence state, "Recall bias can readily
5	support or refute the causal hypothesis.		5	introduce enough bias to produce the modestly
6	And I'm agreeing that I was remiss in not		6	sized overall effect, relative risk equal 1.3,
7	citing this.		7	that emerges from these studies"?
8	Q. You also did not cite the next sentence		8	A. That's yeah, that's his
9	of Rothman		9	interpretation.
10	A. Yes.		10	Q. You don't disagree with that, do you?
11	Q which states, "Of course, it remains		11	A. Well, I do disagree in the sense that,
12	possible that yet unidentified risk factors for		12	you know, he's making inference on the magnitude.
13	ovarian cancer could be important confounders,		13	I'm not disagreeing that there's a potential for
14	and several such factors in the aggregate could		14	recall bias. But, you know, as I've discussed in
15	give risk to an overall association as weak as		15	my report and and, again, if you say that,
16	the one between talc and ovarian cancer."		16	then I should be writing the Rothman paper
17	You did not cite that; correct?		17	instead of my report. Right? You would want Ken
18	A. Yeah. And but that is already		18	Rothman to testify.
19	expressed. The same factor is also expressed in		19	You have to, you know, take you know, I
20	the first sentence. Confounding is one potential		20	understand what he's trying to say. He's saying
21	explanation for so, you know, again, if I had		21	that recall bias can introduce an element that
22	placed that sentence, you would say that, well,		22	would produce 1.3.
23	you're taking three lines, four.		23	Q. In fact, Rothman and the other authors
24	So I cite that confounding is one potential		24	of this paper conclude that the modest positive
25	explanation.		25	association
		Page 251		Page 25:
1	Q. You don't disagree with that statement.	Page 251	1	Page 25: A. Yeah.
2	A. Yeah. Yeah. Because that's one, you	Page 251	2	A. Yeah.Q seen in epidemiological studies
	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential	Page 251	_	A. Yeah.Q seen in epidemiological studiescould be explained by recall bias or an
2 3 4	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation.	Page 251	2 3 4	A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct?
2 3	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on	Page 251	2 3 4 5	 A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes.
2 3 4 5 6	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on Page 1 of the Rothman paper, the middle	Page 251	2 3 4 5 6	 A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes. Q. You did not note in your report
2 3 4 5	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on Page 1 of the Rothman paper, the middle paragraph. Rothman states, "Most of the	Page 251	2 3 4 5 6 7	 A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes. Q. You did not note in your report Rothman's conclusion and if you turn to
2 3 4 5 6 7 8	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on Page 1 of the Rothman paper, the middle paragraph. Rothman states, "Most of the published studies are interview-based,	Page 251	2 3 4 5 6 7 8	 A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes. Q. You did not note in your report Rothman's conclusion and if you turn to Page 8, his conclusion "More important, there
2 3 4 5 6 7 8 9	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on Page 1 of the Rothman paper, the middle paragraph. Rothman states, "Most of the published studies are interview-based, case-control studies subject to recall bias which	Page 251	2 3 4 5 6 7 8 9	 A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes. Q. You did not note in your report Rothman's conclusion and if you turn to Page 8, his conclusion "More important, there is also positive evidence against a causal
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. Yeah. Because that's one, you know, it's stated that, you know, one potential explanation. Q. All right. Look at, if you will, on Page 1 of the Rothman paper, the middle paragraph. Rothman states, "Most of the published studies are interview-based, case-control studies subject to recall bias which can readily give rise to associations of this magnitude." Did I read that correctly? A. Yes. Q. Go to Page 4, third paragraph of the Rothman paper, Exhibit 28. I'm looking at the section under "recall bias," and the third sentence, "Recall bias can easily introduce enough bias to produce the modestly sized overal effect, relative risk equals 1.3, that emerges from these studies." MS. PARFITT: The only correction Q. Is that what Rothman wrote?		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. Q seen in epidemiological studies could be explained by recall bias or an unidentified confounding bias; correct? A. Yes. Q. You did not note in your report Rothman's conclusion and if you turn to Page 8, his conclusion "More important, there is also positive evidence against a causal association. The inverse dose-response trend for both duration of use and frequency of use, a pattern that could not be explained by a causal relation. Based on these considerations, we suggest that the evidence to date does not indicate that talc can be 'reasonably anticipated to be a human carcinogen." A. Yes. And this report was prepared on November 8, 2000. That's 20 years ago. And we have many other studies subsequent to that talking about dose-response, several other understandings about biological mechanisms. So if I wanted if you want me to just

	Page 254			Page 256
1	ovarian cancer.	1	cigarette smoking and BMI.	1 age 230
$\begin{array}{ c c }\hline 1\\ 2\end{array}$	Q. What methodology did you use to rule	2	Q. That it did control for that?	- 1
3	out the effect of an unidentified confounding	3	A. Yeah.	- 1
4	bias or multiple unidentified confounding biases?	4	Q. All right. Show me where, in Gertig	- 1
5	A. Yeah. So I mean, as the meta-analyses	5	2000, that they state that they did control for	- 1
6	have shown, there are no differences between	6	BMI and for cigarette smoking.	- 1
7	most of the studies show no differences between	7	A. "For age-adjusted analysis, we	- 1
8	adjusted and unadjusted estimates, suggesting	8	categorized values as oral contraceptive use,	- 1
9	that the potential for confounding is minimal.	9	tubal ligation, post-menopausal, cigarette	- 1
10	There is no way to rule out unmeasured	10	smoking and BMI."	- 1
11	confounding. And that's always a possibility.	11	Q. What page?	- 1
12	It doesn't mean that it exists.	12	A. That's two whatever that page is,	- 1
13	Q. As we discussed earlier, you did review	13	250. Yeah. That's my understanding.	- 1
14	the Gertig 2000 paper and cite it in your report;	14	If you look at Table 1, they do have, you	- 1
15	is that right?	15	know, cigarette smoking and whatnot. That's my	·
16	A. Yes.	16	understanding.	- 1
17	Q. On Page 48 of your report, you note	17	Q. Ter Riet 2013, you cite that in your	- 1
18	that Gertig 2000 found a statistically	18	report; is that right?	- 1
19	significant increased risk for ever talc use for	19	A. It is.	- 1
20	serous invasive cancers; correct?	20	Q. Terry 2013 did not adjust for a hormone	- 1
21	A. Let me just come to that section.	21	replacement therapy usage; correct?	- 1
22	Yes.	22	MS. PARFITT: Here is Ter Riet.	- 1
23	Q. Gertig did not control for BMI or for	23	A. Just let me go back to my report. This	- 1
24	cigarette smoking, did it?	24	is the Ter Riet meta-analysis?	- 1
25	A. And I'm writing age, duration of	25	Q. Yes. Ter Riet 2013, meta-analysis.	ı
	Page 255			Page 257
1		1	A. Okay.	Page 257
1 2	contraceptive use, BMI, smoking status.	1 2	A. Okay.Q. The question is: Did Ter Riet 2013	Page 257
1 2 3	contraceptive use, BMI, smoking status. Can I look at the study? Sorry.		Q. The question is: Did Ter Riet 2013	Page 257
2	contraceptive use, BMI, smoking status.	2	•	Page 257
2 3	contraceptive use, BMI, smoking status. Can I look at the study? Sorry. Q. You're not wasting my time, are you? A. No. No. Because my writeup says that. I may be incorrect. And I just want to make sure	2 3	Q. The question is: Did Ter Riet 2013adjust for hormone replacement therapy usage?A. Ter Riet.MS. PARFITT: Here is a copy.	Page 257
2 3 4	contraceptive use, BMI, smoking status. Can I look at the study? Sorry. Q. You're not wasting my time, are you? A. No. No. Because my writeup says that. I may be incorrect. And I just want to make sure that my writeup is you know, if we need to	2 3 4	 Q. The question is: Did Ter Riet 2013 adjust for hormone replacement therapy usage? A. Ter Riet. MS. PARFITT: Here is a copy. A. Mine doesn't say that. Usually, 	Page 257
2 3 4 5 6 7	contraceptive use, BMI, smoking status. Can I look at the study? Sorry. Q. You're not wasting my time, are you? A. No. No. Because my writeup says that. I may be incorrect. And I just want to make sure that my writeup is you know, if we need to correct it, I need to correct it. I'm sorry.	2 3 4 5 6 7	Q. The question is: Did Ter Riet 2013 adjust for hormone replacement therapy usage? A. Ter Riet. MS. PARFITT: Here is a copy. A. Mine doesn't say that. Usually, Table 1 should answer that question.	Page 257
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	Daga 250		Dog	a 260
1	Page 258 Q. Recall bias, it's a concern in every	1	talc exposure as part of larger questionnaires on	e 260
2	retrospective study; is that right?	2	other risk factors, minimizing the possibility of	
3	A. Yeah, it is a potential concern in	3	recall bias."	
4	design of studies where, you know, you're asking	4	Did you write that?	
5	about past exposure.	5	A. Yes.	
6	Q. Recall bias can distort a scientific	6	Q. How does asking about other risk	
7	evaluation of whether an exposure is actually	7	factors minimize recall bias as to a particular	
8	related to a disease; correct?	8	risk factor?	
9	A. Yes.	9	A. Yeah. Because, you know, you're not	
10	Q. For example, recall bias could distort	10	stimulating them to answer you know, if you're	
11	results if women with ovarian cancer were more	11	asking them ten questions about, say so it's	
12	likely to remember their exposure to talc than	12	like, well, were you you know, were you	
13	women without ovarian cancer; correct?	13	active, were you using oral contraceptives, were	
14	A. Yes. I mean, but the extent here is	14	you so if you are let me finish. Let me	
15	quite minimal, because we don't see it with a	15	finish my explanation.	
16	you know, for daily use, you know, the likely	16	You're introducing the question of talc use	
17	magnitude is small. We've talked about that.	17	within ten different questionnaires, then you	
18	You know, if recall bias was operational, we	18	minimize the possibility of recall bias for that	
19	would see it with nongenital talc use. They	19	particular product versus you're asking talc	
20	would be reporting that. And we would be seeing	20	alone.	
21	it with other types of, you know, cancer beyond,	21 22	Q. On what literature are you relying to	
22	you know, ovarian.	23	say that asking about other risk factors minimizes recall bias as to another risk factor?	
23 24	So, yes, recall bias is a potential, but the	23		
25	likely magnitude is small. Q. On Page 54, Paragraph 6 of your	25	A. I mean, that's just my general understanding of epidemiology. And maybe, you	
23	Q. On rage 54, ranagraph o or your	23	understanding of epidenhology. And maybe, you	- 1
	Page 259		Page	e 261
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3 4 5 6	report do you have Page 54, Paragraph 6? A. Yeah. Just to clarify on the question, I disagree with Rothman. So just because it's in Rothman's study, doesn't mean that it's, you know Q. I have a new question. Are you ready?	2 3 4 5 6	know yeah, it's not I don't know if it's specific to talc usage. Just a general understanding of epidemiology, about, you know yeah, recall bias. Q. Are you done? A. Yeah.	e 261
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	Page 262		Page 264
1	Between Body Powder Use and Ovarian Cancer; The	1	that they used tale on their genitals was
2	African American Cancer Epidemiology Study";	2	34 percent; is that right?
3	correct?	2 3	A. Where is that? Yeah.
4	A. Yes.	4	Q. The percentage of cases, meaning women
5	Q. The study looked at, among other	5	with ovarian cancer, that said that they used
6	things, what impact, if any, lawsuit filings in	6	talc on their genitals was 36.5 percent; is that
7	2014 had on whether women recalled using talc in	7	right?
8	the past; correct?	8	A. I'm just looking at this. Give me a
9	A. Yeah. It examined the issue of	9	second.
10	stimulated reporting. And I note it in my	10	36 interview data after 2004?
11	report. I don't I don't discount that in my	11	Q. No. My question here is: For women
12	discussion of the Schildkraut study.	12	who were interviewed before 2014
13	Q. We'll call it Schildkraut. Can we do	13	A. Mm-hmm.
14	that?	14	Q the control, so women without
15	A. Whatever. I don't know.	15	ovarian cancer, they stated they used talc on
16	Q. The authors in that study, Exhibit 29,	16	their genitals, 34 percent; is that right?
17	thought that the publicity from lawsuits might	17	A. Yes.
18	influence the participants' recall of prior body	18	Q. For that same time period, women
19	powder use; is that right?	19	interviewed before 2014
20	MS. PARFITT: Objection.	20	A. Mm-hmm.
21	A. Yes. And I noted on Page 45 of my	21	Q with ovarian cancer that said that
22	report that although there was some evidence that	22	they used talc on their genitals was
23	there was more reporting after class action	23	36.5 percent.
24	lawsuits in 2014, recall bias alone is	24	A. Yes.
25	insufficient because there is a statistically	25	Q. Is that right?
23	misuricient occause there is a statistically	23	Q. Is that right:
	Page 263		Page 265
1	significant risk both before and after 2014. But	1	So roughly the same reporting of genital
2	the authors did, you know, think it was an	2	talc use between women with and without ovarian
3	important thing to look at.	3	cancer occurred before the lawsuits were filed in
4	Q. The authors looked at this and tried to	4	2014.
5	study this; is that right?	5	MS. PARFITT: Objection.
6	A. Yes.	6	Q. Correct?
7	Q. All right. Go to Page 4, Table 2 of	7	A. I don't know the timing of lawsuits,
8	the Schildkraut paper. Tell me when you have it.	8	but yes, 2014.
9	A. I do.	9	Q. So then let's look at what happened
10	Q. This is a table, Adjusted Odds Ratios	10	after the lawsuits were filed.
11	for the Associations Between Mode, Frequency and	11	After 2014, what percentage of women without
12	Duration of Body Powder Use and Ovarian Cancer;	12	ovarian cancer said that they used talc on their
13	is that right?	13	genitals?
14	A. Yes.	14	
15	Q. The second column shows the number of	15	or controls?
16	cases. That's women with ovarian cancer;	16	Q. Yeah. I'm talking about controls.
17	correct?	17	A. 34.4, 34.4.
18	A. Yes.	18	Q. So based on this data, the lawsuits had
19	Q. The third column shows the controls.	19	essentially no effect on how many of the women
20	That's the women who do not have ovarian cancer;	20	without ovarian cancer, the controls, remembered
21	correct?	21	or recalled using baby powder; correct?
22	A. Yes.	22	A. Yes.
23	Q. Looking at the data, before 2014,	23	Q. It was 34 percent before 2014 and
24	before the lawsuits, the percentage of controls,	24	34.4 percent after; is that right?
			A. Yes.
25	meaning women without ovarian cancer, who said	25	A. 168.

	Page 266			Page 268
1	Q. For women with ovarian cancer, before	1	action lawsuits in 2014, recall bias alone is	1 age 200
	the lawsuits were filed, 36.5 percent of them	2		
2 3		3	insufficient to explain these findings, because there was a statistically significant increased	
, , , , , , , , , , , , , , , , , , ,	said they recalled using baby powder; correct? A. Yes.	4	risk both before and after 2014."	
5	Q. But after the lawsuits were filed, the			
	percent of women with ovarian cancer who said	5	Is that what you state? A. Yeah.	
6 7	they used baby powder went up to 51.5 percent; is	6		
8		8	Q. Let's look at what the study actually	
9	that right? A. Yes.	9	shows. So go to A. Yeah. I correct it. Should be there	
10	Q. So after the lawsuits were filed, the	10	was an excess risk, because there was no	
11	percent of women with ovarian cancer who said	11	statistically significant.	
12	they used baby powder jumped by over 40 percent;	12	Q. Your report is in error; is that right?	
13	is that right?	13	MS. PARFITT: Objection.	
14	MS. PARFITT: Objection. Form.	14	A. Well, it should be corrected to an	
15	A. By 40 percent? Where is 40?	15	excess risk.	
16	Q. A difference between the 36	16	Q. It is not, and there is not a	
17	A. 10 percent. It's 51 and 34. Right?	17	statistically significant risk; is that right?	
18	Q. It jumped I don't have a calculator.	18	MS. PARFITT: Objection. Form.	
19	A. You're subtracting 51 to 36 or 51 to	19	A. Yeah. The test for effect modification	
20	34?	20	by year of interview was technique, but the	
21	Q. Well, there was	21	particular estimate for above for, you know,	
22	A. Sorry.	22	for before 2014 was not significant.	
23	Q. That's okay. It's late.	23	Q. Exactly. So pre-2014, there was an	
24	There was a significant increase	24	odds ratio of 1.19 with a confidence interval	
25	A. There was an increase.	25	ranging from .87 to 1.63; is that right?	
			8 8	
	Page 267			Page 269
1	Page 267 Q from 36.5 percent before the	1	A. Yeah. Yeah.	Page 269
2		1 2	A. Yeah. Yeah.Q. That is not statistically significant;	Page 269
	Q from 36.5 percent before the lawsuits were filed to 51.5 percent after; is that right?	1 2 3		Page 269
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1 relationship between talcum powder use and 2 ovarian cancer; correct? 1 reports for that. 2 Q. You have no personal expe	Page 272
1 2 Overhein cancer, correct: 1 2 Q. I du have no personal expe	ertise with
3 MS. PARFITT: Objection. Misstates the 3 that; correct?	
4 data. 4 Å. No.	
5 A. Yeah. There was an excess risk which 5 Q. Did you consider any testing	ng that found
6 was not statistically significant. But, you 6 no asbestos?	
7 know, we are picking and choosing analysis by 7 A. Yeah. I did. I think I'm cit	ing the
8 2004. Again, we talked about we are choosing by 8 FDA report in my assessment that	there are
9 duration. You can pick any one of these analyses 9 studies that suggest the I don't kn	now if it's
10 to cite it. You have to look at the cumulative 10 an FDA report. It's an FDA study	that talks
11 evidence and the cumulative evidence from 11 about it.	
12 meta-analyses. 12 Q. If your assumption about co	
Q. How did you account for this recall 13 of talcum powder products with as	
14 bias in weighing the Schildkraut study? 14 true, would your opinions in this c	
15 MS. PARFITT: Object to the form. 15 MS. PARFITT: Objection.	
16 A. So, again, I did not weigh one 16 A. Well, again, you know, this	
17 individual study. My weight of evidence is based 17 of evidence that, does it, you know	
18 on the meta-analysis and the cumulative evidence 18 talcum powder I mean does ta	
from meta-analysis, the biological studies, 19 product contain asbestos? Or, you	know, these
20 animal studies, human studies. 20 other metals we've talked about.	
So, you know, I point out the limitations of 21 But my opinion was, in fact, arr	
22 the individual studies, as do the authors of the	
23 meta-analyses. 23 testimony, as well as the results of	
24 Q. Are your opinions in this matter 25 dependent on televing powden containing ashestes? 26 dependent on televing powden containing ashestes?	
25 dependent on talcum powder containing asbestos? 25 caused, you know, ovarian cancer.	
Page 271	Page 273
Page 271 1 A. No. I arrived at my causal opinion 1 MR. ZELLERS: Move to st	Page 273
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1 A. No. I arrived at my causal opinion 2 independent of, you know, presence of asbestos 3 or, you know, or my understanding of the 4 constituents. But I asked to better understand 5 what are the constituents of, you know, talcum 6 powder products. 7 And I was, you know, some of the documents 8 and some of the literature even suggests and 9 shows that, and some of the testing and some of 10 the deposition testimony that I have been privy 11 to, suggests the presence of asbestos in talcum 12 powder product. 13 Q. Do you believe that talcum powder that 14 does not contain asbestos causes ovarian cancer? 15 A. Yes. 16 Q. Is it fair to say that you have not 17 made any independent determination as to whether 18 or not the talcum powder products manufactured by 19 J&J Consumer Products are contaminated with 20 asbestos? 1 MR. ZELLERS: 2 nonresponsive. I'm going to ask th agaain. 1 THE WITNESS: Sure. 5 BY MR. ZELLERS: 6 Q. If your assumption about of talcum powder products with as true, would your opinions in this contain asbestos as true, would your opinions in this contain aspect to sure as true, would your opinion powder products contain asbestos, 10 Q. In support of your opinion powder products contain asbestos, 11 Julie Pier; is that right? 12 Q. Are you aware that those expendence are understand to the powder products or created by plaintiff attorneys? 15 MS. PARFITT: Objection. 16 A. Yeah. I mean, I asked then that you know, these are as I understand to powder products are contaminated with that you know, these are as I understand to product as the product of the produc	Page 273 crike as the question contamination shestos were not ase change? that talcum you cite to ohn Hopkins and xhibits were Misstates the m whatever understand
1 A. No. I arrived at my causal opinion 2 independent of, you know, presence of asbestos 3 or, you know, or my understanding of the 4 constituents. But I asked to better understand 5 what are the constituents of, you know, talcum 6 powder products. 7 And I was, you know, some of the documents 8 and some of the literature even suggests and 9 shows that, and some of the testing and some of 10 the deposition testimony that I have been privy 11 to, suggests the presence of asbestos in talcum 12 powder product. 13 Q. Do you believe that talcum powder that 14 does not contain asbestos causes ovarian cancer? 15 A. Yes. 16 Q. Is it fair to say that you have not 17 made any independent determination as to whether 18 or not the talcum powder products manufactured by 19 J&J Consumer Products are contaminated with 20 asbestos? 2 nonresponsive. I'm going to ask th again. 4 THE WITNESS: Sure. BY MR. ZELLERS: 6 Q. If your assumption about co 7 of talcum powder products with as 8 true, would your opinions in this co 9 A. No. 10 Q. In support of your opinion 11 powder products contain asbestos, 12 exhibits from the depositions of Jo 13 Julie Pier; is that right? 14 A. Yes. 15 Q. Are you aware that those expected by plaintiff attorneys? 16 Created by plaintiff attorneys? 17 MS. PARFITT: Objection. 18 evidence. 19 A. Yeah. I mean, I asked then 20 that you know, these are as I used them, they are, you know they are	Page 273 crike as an equestion contamination shestos were not ase change? that talcum you cite to ohn Hopkins and exhibits were Misstates the method whatever and created as a
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Page 271 1 A. No. I arrived at my causal opinion 2 independent of, you know, presence of asbestos 3 or, you know, or my understanding of the 4 constituents. But I asked to better understand 5 what are the constituents of, you know, talcum 6 powder products. 7 And I was, you know, some of the documents 8 and some of the literature even suggests and 9 shows that, and some of the testing and some of 10 the deposition testimony that I have been privy 11 to, suggests the presence of asbestos in talcum 12 powder product. 13 Q. Do you believe that talcum powder that 14 does not contain asbestos causes ovarian cancer? 15 A. Yes. 16 Q. Is it fair to say that you have not 17 made any independent determination as to whether 18 or not the talcum powder products with as 8 true, would your opinions in this compowder products contain asbestos, 12 exhibits from the depositions of Journal Julie Pier; is that right? 14 A. Yes. 15 Q. Are you aware that those expressed by plaintiff attorneys? 16 Created by plaintiff attorneys? 17 MS. PARFITT: Objection. 18 evidence. 19 J&J Consumer Products are contaminated with 20 asbestos? 21 A. Yes. I have not made a determination. 22 I've looked at the literature. I have looked at	Page 273 rrike as are question contamination sbestos were not ase change? that talcum you cite to ohn Hopkins and xhibits were Misstates the m whatever understand re created as a onents on

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Sonal Singh, M.D., M.P.H.

Page 274 Page 276 Exhibit 28 to the deposition of John Hopkins and 1 than from communicating with plaintiffs' counsel? Exhibit 47 to the deposition of Julie Pier were 2 2 A. I'm not sure what -- so --3 3 exhibits that were created by plaintiffs' MS. PARFITT: I'm going to object to attorneys? 4 the form. 5 MS. PARFITT: Objection. Completely 5 Q. Sure. The source of data? 6 misstates the evidence in this case. 6 A. Like source of --7 A. You know. I asked for constituents. I 7 Q. I'm asking you if you know where the 8 8 data in those exhibits came from. don't know what -- who created what. So I mean, 9 9 A. So I'll try to answer to the best of my I'm not going to be able to answer that type of 10 question, who created this. 10 ability. I was asked for, you know, what are the My understanding is that the data on J&J and 11 11 constituents, that can I learn more about this? 12 12 Imerys were from mines tested over the years, O. Outside of your work in litigation, do 13 13 ranging, you know, from several decades. And that contained or -- you know, were contaminated 14 you normally rely on documents created by 14 15 15 advocates in order to evaluate epidemiological with asbestos, various fibers that were created. 16 data? 16 And the second was the Luongo report was MS. PARFITT: Objection. Again, 17 products that were purchased and that were tested 17 misstates the evidence as to origin of the in the laboratory. So that's where the source. 18 18 Hopkins and Pier Exhibits 28 and 40. I mean, I assume these other two sources. 19 19 You may answer. Q. Have you made any effort to investigate 20 20 the alternative explanations for the data in 21 A. Yeah. I mean, I do. As I said 21 22 earlier, I rely on our published data. And as 22 those charts, Exhibit 28 and Exhibit 47? 23 the Health Canada approach states, that we rely 23 A. I mean -on whatever evidence becomes available, and, A, 24 24 MS. PARFITT: Objection. 25 is relevant to the particular testimony. 25 A. So, for example, I think that those Page 275 Page 277 And, importantly, just as my causal opinion data are, as I said earlier, my causal opinion was arrived at independent of the constitution of is -- is, you know, this is only a -- my causal 2 2 opinion is only -- you know, this is only a small 3 asbestos in talc, Health Canada also is unaware 3 4 of the presence of -- or at least, you know, they 4 link in my causal opinion between talc and 5 haven't assessed the presence of asbestos in ovarian cancer, and it's not predicated on the 6 tale, and they are, you know, both congruent. presence of asbestos. 6 7 O. Your testimony is that outside of your I don't have the expertise to determine 8 work in litigation, that you normally do rely on whether asbestos is present. 9 9 Q. I'm trying to make it a simple data and documents created by plaintiffs' 10 counsel? 10 question. I'm just trying to find out what you MS. PARFITT: Objection. Form. Asked 11 did and what you did not do. 11 and answered. And misstates the evidence. Did you make any effort to investigate the 12 12 A. So I, you know, rely on evidence that's 13 13 alternative explanations for the data in the available in terms of epidemiologic evidence. charts which are marked as Exhibit 28 and 14 14 And my testimony on asbestos was based on testing 15 15 Exhibit 47? 16 and based on -- testing by -- based on some of, 16 A. So --17 you know, there are studies which suggest the 17 MS. PARFITT: Objection. presence of asbestos. A. What is 28, 47? 18 18 O. Do you know where the data in 19 MS. PARFITT: Yeah. Let's get them. 19 Exhibit 28 to Hopkins and Exhibit 47 to Pier came Do you have a copy of them here to show --20 20 21 from? 21 MR. ZELLERS: No. 22 A. You know, I was seeing these were in 22 MS. PARFITT: You aren't going to show 23 various mines conducted. That's my 23 it to him? 24 understanding. 24 MR. ZELLERS: He cites to these in his O. Do you have an understanding, other 25 25 report.

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Page 278 Page 280 knowledge on these issues; correct? MS. PARFITT: Then let's get them. 2 2 We'll get them. Give him a moment. A. Yeah. I mean, for my purpose, you 3 3 know, it was more an understanding of the MR. ZELLERS: We don't need to get them 4 to answer this question. 4 constituents, whether that would provide, you know, proof against biologic plausibility, proof 5 MS. PARFITT: Do you need them, 5 6 6 for biologic plausibility. Dr. Singh? 7 7 THE WITNESS: Yes. So, for example, you say, did I undertake 8 8 attempts to understand the constituents? Yes. I MS. PARFITT: Do you want to take a 9 9 mean, I was looking for, well, are there some quick break? 10 MR. ZELLERS: And I object. And this 10 antioxidants that, if you had some antioxidants should not be time that gets charged me. 11 in that product, and I'm not aware of, or anti, 11 you know, carcinogens and maybe these scientists 12 BY MR. ZELLERS: 12 O. My question simply is: Did he attempt 13 will be able to provide that. 13 to investigate any alternative causes. He can Q. Did you ask counsel for plaintiffs for 14 14 any information or testimony from either J&J 15 either say yes, he can say no, or he can say I 15 16 don't recall. 16 company folks or Imerys scientists as to what the 17 A. Yes. 17 tests actually showed with respect to asbestos? MS. PARFITT: Other than Exhibits 28 18 Q. All right. What did you do to 18 investigate alternative explanations? 19 19 and 47? A. I mean, you know, I was looking at A. I assume those testifying were J&J 20 20 the -- I was already looking at the published 21 21 scientists and Imerys, and they were speaking 22 literature, but beyond that, I was looking at 22 about those tests. 23 what are the alternate -- again, as I said, you 23 Q. My question is: Did you ask for any know, my expertise in determining -- I'm not a additional information? 24 24 mineralist that I can, you know, that I can 25 25 A. No. I mean, I asked -- as I said, I Page 279 Page 281 determine that. And, again, I'm not opining that asked about the causal question and I got what I Dr. Luongo's report -- I mean, he will have to 2 got. We can go about it in various ways. 2 3 3 vouch for his report. Like did I ask again? No, I didn't. And I Q. Let me ask it a different way. 4 4 don't want any more documents. 5 A. Yeah. 5 Q. We'll try to shortcut this. 6 Q. If scientists from the J&J companies 6 Do you believe Luongo? You reviewed his 7 7 and Imerys scientists say that those tests don't testimony; right? 8 8 actually show asbestos, it was just tremolite MS. PARFITT: Objection. Form. 9 9 reported, for example, you have no expertise to Go ahead. 10 dispute that; correct? 10 A. Yeah. It's like how do you believe, MS. PARFITT: Objection. Misstates the you know -- again, it's an area of expertise. He 11 11 evidence in this case, entirely. tests, you know, these products, you know, this 12 12 13 Do you want to ask him a hypothetical? 13 is not my area of experience. At least based on 14 Q. It's a hypothetical question. his testing, there is presence of asbestos in 14 MS. PARFITT: It's a hypothetical. my -- and provides additional support. 15 15 16 A. Again, with my limited expertise and my 16 Q. Did you look at any of the experts for 17 understanding of whatever I was provided and 17 the defendants who have opined to the opposite cited there, my understanding was that there was statement or the opposite? 18 18 asbestos present in there and, you know, other 19 MS. PARFITT: I think -- objection. 19 people can have different opinions and I think A. I was told that the expert defendants 20 20 21 hadn't even been -- you know, haven't submitted mineralogists, geologists will --21 22 Q. Those are the --22 reports or haven't been, you know, opined on. 23 A. Yeah. 23 That's sort of my understanding. Q. -- expertise or the -- those are the Q. You believed and accepted the Luongo 24 24 types of experts that would have substantive 25 testing for purposes of this case; is that right?

	Page 282			Page 284
1	MS. PARFITT: Objection. Misstates the	1	I'm not trying to slow you down.	1 450 207
2	heart of his testimony.	2	MR. TISI: And you said you think he	
3	A. So, first of all, this report is 70	3	Was.	
4	whatever pages. Luongo is maybe a paragraph or	4	MR. ZELLERS: Yes. And it was in jest,	
5	two. So, yes, I believe that was one study.	5	Counsel. We all chuckled and we all laughed.	- 1
6	For the purposes of, you know, identifying,	6	MR. TISI: As long as it was in jest,	- 1
7	you know, I identified his. I identified what	7	that's fine.	- 1
8	was shown and what was in those notes. And I	8	THE WITNESS: I took it to be in jest.	- 1
9	identified some epidemiologic I mean, some	9	I know I reviewed one, but I'm just	
10	findings in the published literature.	10	trying to see if I reviewed another one. There	
11	I mean, that's as much as I could know about	11	was yeah.	
12	it. I mean, you had Routers' study, you know,	12	So I said, No. 30 and then 31, 32, two	
13	talking about it in the media. So there's lots	13	additional reports. Sorry.	- 1
14	of different things.	14	Q. Have you ever met Luongo?	- 1
15	I didn't go and, you know, go looking into	15	A. I don't know him.	- 1
16	the Routers report. Maybe that's what I should	16	Q. Do you know his qualifications?	- 1
17	be looking at.	17	A. No.	- 1
18	Q. You did not confirm that any of the	18	Q. Had you ever heard of him before you	- 1
19	talc samples mentioned in those charts were	19	got involved in this MDL talc ovarian cancer	- 1
20	actually from talc that was used in baby powder;	20	litigation?	- 1
21	correct?	21	A. No.	- 1
22 23	MS. PARFITT: Objection. Misstates the	22 23	Q. Have you reviewed any Luongo testing where he did not find asbestos?	- 1
24	evidence that was available to him. If you want to show him the charts, you can do it.	24	A. These were the three reports I	- 1
25	Q. Can you answer that question?	25	reviewed. So I don't know if he has conducted	- 1
25	Q. Can you answer that question.	23	Teviewed. 50 I don't know if he has conducted	
	Page 283			Page 285
1	MS. PARFITT: Objection.	1	additional testing.	
2	A. I did not confirm it myself.	2	Q. Let me ask again. Have you reviewed	- 1
3	Q. You realize that the vast majority of	3	any Luongo testing where he did not find	- 1
4	talc isn't even used for body powder; correct?	4	asbestos?	- 1
5	MS. PARFITT: Objection. Misstates the	5	A. I did not review any additional beyond	- 1
6	evidence.	6	what is cited here.	- 1
7	A. I realize that yeah, I don't know	7	Q. Have you reviewed the FDA's testing of	- 1
8	what you know, there are various other uses of	8	talcum powder products?	- 1
9	talc.	9	A. I have cited it. I mean, I have not	- 1
10	Q. Do you also rely on well, strike	10	reviewed the specific test, but I have, you know,	- 1
11 12	that.	11 12	cited what what they what they found. Q. Have you made any effort to quantify	- 1
13	How many Luongo reports have you reviewed? A. I just have to take a look. I know	13	the amount of any alleged contaminant in the	- 1
14	that I reviewed one. And I'm not trying to slow	14	Johnson & Johnson Consumer Products talcum p	vovvdor
15	you down. I'm just trying to be accurate.	15	products?	owaei
16	Q. I think you are, but	16	A. That's way beyond my expertise.	- 1
17	MS. PARFITT: Objection to the	17	Q. Is any amount safe?	- 1
18	characterization, Counsel.	18	MS. PARFITT: Objection.	
19	A. I'm trying to find this.	19	A. Well, as of my understanding that	
20	MS. PARFITT: He's acted in a	20	asbestos, you know, any amount of asbestos is no	ot
21	professional way throughout all this, so it's	21	safe, that's my understanding. And, obviously,	
22	good.	22	others can	
23	MR. TISI: You asked him questions	23	Q. Do you defer to other experts on that	
24	looking at his report.	24	issue?	
25	MR. ZELLERS: The witness said to me,	25	A. Yeah. But, you know, my understanding	- 1

	Pa	ge 286		Page 288
1	is that any amount and I think there's some		1	at meta-analysis that, you know, cause, as well
2	testimony from others to that effect as well.		2	as the IARC report that, you know, talks about
3	But I'll defer to others.		3	asbestos and fibrous talc as a carcinogen and
4	Q. Do you have an opinion on what type of		4	also cites studies that show that asbestos causes
5	asbestos is in the baby powder products?		5	ovarian cancer. But, again, I wasn't doing a
6	A. Again, you know, this whole you		6	formal causal analysis.
7	know, this sort of questions around constituents		7	Q. Do you agree that research on the
8	of the product, for me, it was more trying to		8	potential relationship between asbestos and
9	understand whether it's asbestos or any other		9	ovarian cancer has only considered a small number
10	constituents in the product, provide evidence in		10	of cases?
11	support or against.		11	MS. PARFITT: Objection. Form.
12	I can't tell you what amount would cause or,		12	A. I mean, ovarian cancer is a rare, rare
13	you know, not cause baby in baby powder will		13	disease. And, you know, it's going to be a small
14	cause ovarian cancer.		14	number of cases, regardless of etiology, what
15	Q. What types of asbestos are associated		15	they are trying to study.
16	with ovarian cancer?		16	Q. How many of the studies involve
17 18	A. I haven't done a causal analysis of asbestos and ovarian cancer. I know that the		17 18	occupational exposure? A. I think the predominant
19	IARC has classified asbestos as a carcinogen,		19	MS. PARFITT: Objection.
20	Grade 1, and that also stated that it caused		20	A studies have involved occupational
21	ovarian cancer, but about asbestos and fibrous		21	exposure.
22	tale, but obviously others will provide more		22	Q. How many were nonoccupational, if any?
23	more specifics.		23	A. I don't recall the numbers.
24	Q. Do you have any strike that.		24	Q. Did any of the nonoccupational asbestos
25	Do you have knowledge as to the different		25	studies reach statistical significance?
	Do	ge 287		Page 289
1		.gc 207	1	
$\frac{1}{2}$	types of asbestos? A. No.		1 2	MS. PARFITT: Objection. Form. A. Again, I would have to look at the
$\frac{2}{3}$	Q. What dose of asbestos is associated		3	study that you're talking about. And I just I
4	with ovarian cancer?		4	can't recall it off the top of my head.
5	A. I have not evaluated the dose of		5	Q. Can you tell how many women were
6	asbestos with ovarian cancer.		6	studied?
7	Q. What type of ovarian cancer is asbestos		7	A. No, I can't. I mean, you can't ask
8	associated with?		8	questions about these things, and tell me how
9	A. I have not as I said earlier, I have		9	many women. No. You have to show me the study
10	not evaluated the specific causal link between		10	if you want to go down that line of questioning.
11	asbestos and ovarian cancer. My causal question		11	Q. I'll show you a study.
12	was, does talcum powder products cause ovarian		12	A. Sure.
13	cancer. And whatever the constituents are, you		13	Q. Are you familiar with the Reid study
14	know, whether they provide evidence in support or		14	published May 24th of 2011?
15			15	A. Yes.
15	against. And, as you said, there may be			
16	against. And, as you said, there may be additional testing.		16	Q. It's one of the studies you looked at;
16 17	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary		16 17	Q. It's one of the studies you looked at; is that right?
16 17 18	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos?		16 17 18	Q. It's one of the studies you looked at; is that right? A. Yes.
16 17 18 19	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that		16 17 18 19	Q. It's one of the studies you looked at;is that right?A. Yes.MR. ZELLERS: We'll mark that as
16 17 18 19 20	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that body of evidence.		16 17 18 19 20	Q. It's one of the studies you looked at; is that right? A. Yes. MR. ZELLERS: We'll mark that as Exhibit 30.
16 17 18 19 20 21	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that body of evidence. Q. Did you evaluate studies that have		16 17 18 19 20 21	Q. It's one of the studies you looked at; is that right? A. Yes. MR. ZELLERS: We'll mark that as Exhibit 30. (Article entitled "Does Exposure
16 17 18 19 20 21 22	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that body of evidence. Q. Did you evaluate studies that have explored the potential link between asbestos and		16 17 18 19 20 21 22	Q. It's one of the studies you looked at; is that right? A. Yes. MR. ZELLERS: We'll mark that as Exhibit 30. (Article entitled "Does Exposure to Asbestos Cause Ovarian Cancer? A
16 17 18 19 20 21 22 23	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that body of evidence. Q. Did you evaluate studies that have explored the potential link between asbestos and ovarian cancer?		16 17 18 19 20 21 22 23	Q. It's one of the studies you looked at; is that right? A. Yes. MR. ZELLERS: We'll mark that as Exhibit 30. (Article entitled "Does Exposure to Asbestos Cause Ovarian Cancer? A Systematic Literature Review and
16 17 18 19 20 21 22	against. And, as you said, there may be additional testing. Q. Does the type of ovarian cancer vary based upon the type of asbestos? A. Again, I didn't evaluate that that body of evidence. Q. Did you evaluate studies that have explored the potential link between asbestos and		16 17 18 19 20 21 22	Q. It's one of the studies you looked at; is that right? A. Yes. MR. ZELLERS: We'll mark that as Exhibit 30. (Article entitled "Does Exposure to Asbestos Cause Ovarian Cancer? A

	Page 290		Page 292
1	THE WITNESS: Can you repeat the	1	Where are you pointing to?
2	question for me?	2	MR. ZELLERS: Sure. I'm looking at
3	MR. ZELLERS: Sure.	3	the
4	THE WITNESS: I'm sorry.	4	MS. PARFITT: Thank you.
5	BY MR. ZELLERS:	5	MR. ZELLERS: No. 2.
6	Q. Go to the first page, the right column.	6	MS. PARFITT: Uh-huh.
7	A. Mm-hmm.	7	MR. ZELLERS: The last full sentence.
8	Q. Reid. And this article is entitled	8	MS. PARFITT: Thank you. I appreciate
9	"Does Exposure to Asbestos Cause Ovarian Cancer?"	9	it.
10	Is that right?	10	MR. ZELLERS: On Page first page of
11	A. Yes.	11	the article.
12	Q. The authors state, on the first page,	12	MS. PARFITT: Thank you. I appreciate
13 14	on the right-hand side, right above the No. 1 and	13 14	that. MR. ZELLERS: Sure.
15	No. 2, "Studies that have examined this issue have been limited for two major reasons. No. 1,	15	A. Yes.
16	small number of cases"; is that right?	16	Q. Have the studies addressed confounding
17	A. Yes.	17	and independent risk factors?
18	Q. The authors state, "Much fewer women	18	A. Well, again, you know, my examination
19	than men have been exposed to asbestos,	19	of asbestos I mean, I was not trying to
20	particularly in more heavily exposed occupational	20	establish a causal link between asbestos and
21	settings where relative risks are higher."	21	ovarian cancer, you know, when in trying to look
22	You agree with that; correct?	22	at talcum powder products and ovarian cancer, you
23	A. Yes.	23	know, one of the questions was constituents.
24	Q. Then the second major limitation deals	24	And, you know, the IARC agrees that, or at
25	with difficulties of diagnosis; is that right?	25	least opines that it is, causally, is a
	Page 201		Paga 203
1	Page 291	1	Page 293
1	A. Yes.	1	carcinogen and lists that and lists the Kamargo
2	A. Yes.Q. Are you aware of the difficulties that	2	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian
2 3	A. Yes.Q. Are you aware of the difficulties that have existed over time in distinguishing between	2 3	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer.
2 3 4	A. Yes. Q. Are you aware of the difficulties that have existed over time in distinguishing between peritoneal mesothelioma and ovarian cancer?	2 3 4	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer. Q. Well, the Camargo 2011 study
2 3 4 5	 A. Yes. Q. Are you aware of the difficulties that have existed over time in distinguishing between peritoneal mesothelioma and ovarian cancer? A. Yes. As a general idea of you know, 	2 3 4 5	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer. Q. Well, the Camargo 2011 study acknowledges an inability to account for
2 3 4 5 6	A. Yes. Q. Are you aware of the difficulties that have existed over time in distinguishing between peritoneal mesothelioma and ovarian cancer? A. Yes. As a general idea of you know, because they share histologic similarities.	2 3 4 5 6	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer. Q. Well, the Camargo 2011 study acknowledges an inability to account for nonoccupational risk factors for ovarian cancer
2 3 4 5	 A. Yes. Q. Are you aware of the difficulties that have existed over time in distinguishing between peritoneal mesothelioma and ovarian cancer? A. Yes. As a general idea of you know, because they share histologic similarities. Q. Did those difficulties affect the 	2 3 4 5 6 7	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer. Q. Well, the Camargo 2011 study acknowledges an inability to account for nonoccupational risk factors for ovarian cancer other than age; correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Are you aware of the difficulties that have existed over time in distinguishing between peritoneal mesothelioma and ovarian cancer? A. Yes. As a general idea of you know, because they share histologic similarities. Q. Did those difficulties affect the reliability of the studies? A. Yes, but if you look at Table 2 of that report, you see that, despite if you look at studies that review the ovarian pathology, you still see a statistically significant increased risk of incidence of mortality from ovarian cancer. So, yes, overall studies, it's a higher estimate, but even if you take into account mesothelioma diagnoses and misclassification, you still cannot, you know, account that we still are left with that asbestos causes, you know, ovarian cancer. Q. The authors of the Reid paper that you reviewed and relied on, Exhibit 30, stated, "It has been particularly difficult to distinguish	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogen and lists that and lists the Kamargo study as, you know, that asbestos causes ovarian cancer. Q. Well, the Camargo 2011 study acknowledges an inability to account for nonoccupational risk factors for ovarian cancer other than age; correct? A. Again, if I can Q. Take a look. Sure. A. These statements it's getting to the end of the day, so MR. ZELLERS: Deposition Exhibit 31. (Article entitled "Occupational Exposure to Asbestos and Ovarian Cancer: A Meta-analysis" marked Exhibit 31.) BY MR. ZELLERS: Q. Deposition Exhibit 31 is the Kamargo paper; is that right? A. Yes. Q. This is another paper that you have reviewed? A. Yes.

	Page 294		р	Page 296
1	monograph working group of IARC conducted" or	1	Q. And you're not making a causal	. ugc 270
2	strike that "concluded that there is	2	assessment or determination	
3	sufficient evidence for a causal association	3	A. No.	
4	between exposure to asbestos and ovarian cancer.	4	Q on asbestos; is that right?	
5	We performed a meta-analysis to quantitatively	5	A. Yes.	
6	evaluate this association."	6	Q. Okay. Under "discussion," Page 1215	
7	Is that right?	7	A. And I'm going to take a break after	
8	A. Yes.	8	that whenever you're done. I'm sorry. I need to	
9	Q. If you look at Page 1216, middle	9	use the restroom.	
10	column are you there?	10	Q. That's okay. That's fine. That's	
11 12	So I'm looking at the second full paragraph	11 12	fine.	
13	above "conclusion." "A further limitation of our analysis was	13	Do you see under "discussion," this is on the left-hand column, second full paragraph,	
14	its inability to account for nonoccupational risk	14	where they're talking about Edelman?	
15	factors for ovarian cancer other than age."	15	A. Yes.	
16	Do you see that?	16	Q. And the authors state, "They concluded,	
17	A. And what do you mean by that? I mean,	17	however, that despite the positive and	
18	I didn't again, you know, I	18	significant association, there was insufficient	
19	Q. Let me just ask. Is that a	19	information to infer that ovarian cancers were	
20	limitation	20	caused by occupational exposure to asbestos	
21	A. Yeah.	21	because of concerns about tumor	
22	Q on the analysis?	22	misclassification, inappropriate comparison	
23	A. It is a limitation.	23	populations and the failure to take into account	
24	Q. Hasn't failure to account for	24	for known risk factors."	
25	misclassification and known risk factors been	25	Is that	
	Page 295		P	Page 297
1	Page 295 cited as a reason why causality cannot be	1	A. Again	Page 297
2	cited as a reason why causality cannot be established?	2	A. AgainQ. You don't disagree with that, do you?	Page 297
2 3	cited as a reason why causality cannot be established? MS. PARFITT: Objection.	2 3	A. AgainQ. You don't disagree with that, do you?A. Yeah. I mean, I don't but I don't	Page 297
2 3 4	cited as a reason why causality cannot be established? MS. PARFITT: Objection. A. We can't rely on IARC. As you said,	2 3 4	A. Again Q. You don't disagree with that, do you? A. Yeah. I mean, I don't but I don't disagree I mean, I'm relying on the IARC	Page 297
2 3 4 5	cited as a reason why causality cannot be established? MS. PARFITT: Objection. A. We can't rely on IARC. As you said, one said that it is possibly associated and here,	2 3 4 5	A. Again Q. You don't disagree with that, do you? A. Yeah. I mean, I don't but I don't disagree I mean, I'm relying on the IARC assessment and others that, you know, there's a	Page 297
2 3 4 5 6	cited as a reason why causality cannot be established? MS. PARFITT: Objection. A. We can't rely on IARC. As you said, one said that it is possibly associated and here, when they haven't arrived at a I mean,	2 3 4 5 6	A. Again Q. You don't disagree with that, do you? A. Yeah. I mean, I don't but I don't disagree I mean, I'm relying on the IARC assessment and others that, you know, there's a causal association between exposure. Again, I	
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	Page 2	98	Page 300
1	be an expert in different kinds and routes of	1	may do testing and provide antioxidants and
2	asbestos exposure. My my sort of at least	2	substances which reduce the risk. So that will
3	my understanding of my causal question was	3	have to be weighed.
4	exposure to talcum powder products and ovarian	4	But I am not providing that causal link
5	cancer and whether the constituents can provide	5	between the individual constituent and ovarian
6	evidence in support or refute that association.	6	cancer.
7	So, you know, whether asbestos exposure,	7	Q. And that would be true for any of the
8	what different kinds, others will opine on that.	8	individual fragrance chemicals and heavy metals
9	Q. Do you know what a cleavage fragment	9	that may be present in the baby powder; correct?
10	is?	10	MS. PARFITT: Objection.
11	A. No. And we can go on on this kind of	11	A. I don't have that area of expertise on
12	stuff, and I'll say no.	12	individual constituents in products.
13	Q. Do you know how it differs from an	13	MR. ZELLERS: I have no further
14	asbestos fiber?	14	questions. Thank you.
15	A. No. And I'm not a mineralogist.	15	THE WITNESS: Thank you for your time.
16	Q. If I ask you a whole line of questions	16	(Discussion off the record.)
17	about different types of asbestos, you're going	17	THE WITNESS: Thank you.
18	to defer to other folks?	18	MR. ZELLERS: Thank you, Doctor.
19	A. Yes.	19	MR. KLATT: Give me a minute to get
20	Q. Is there any epidemiology	20	organized here, Doctor.
21	substantiating the theory that fragrance	21	THE WITNESS: Sure.
22	ingredients can cause ovarian cancer?	22	MR. KLATT: Are we off the record?
23 24	A. I'm not aware of such studies.	23 24	THE VIDEOGRAPHER: No.
25	Q. Is there any epidemiology substantiating the theory that exposure to trace	25	MR. LOCKE: Let's go off the record, then.
<u>23</u>	substantiating the theory that exposure to trace	23	uien.
	Page 2	99	Page 301
1	amounts of the heavy metals at issue can cause	99 1	THE VIDEOGRAPHER: Off the record,
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Sonal Singh, M.D., M.P.H.

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1	ovarian cancer?	1	subject; correct?	
2	A. Sure.	2	MS. PARFITT: Objection. Form.	
3	Q. And I just wanted to get a better	3	A. I mean, depending I don't know the	
4	understanding of what you were referring to.	4	specifics on arrangement, but the question is,	
5	A. Yeah. So after, sort of and I'm not	5	you know, as long as the disclosure is	
6	going to do it until this is all over, because I	6	transparent, and as long as, you know, the	
7	feel that there, you know, I have access to	7	funding mechanisms, what was the reasons, yeah.	
8	documents that are that are sort of protected	8	So it's not like they have commissioned this	
9	by court order.	9	review.	
10	But partly what I'm thinking of is like	10	I mean, first of all, I have just thought	
11	there have been so many systematic reviews and	11	about it. I haven't even done it. I'm not sure	
12	meta-analyses that I was thinking more on the	12	I'll do it with my time. But you would have to	
13	kind of like an umbrella review of all these	13	disclose that, yeah.	
14	reviews that I cite in my report and with, you	14	Q. But my question, and, again, I think	
15	know, some of the rating of reviews.	15	we'll go quicker if we just focus on the question	
16	And then and that's sort of my thinking,	16	asked and the answer to that question.	
17	was that what I would do is synthesize the	17	But my question is: It's entirely	
18	evidence, that what I do best is synthesize	18	appropriate for companies to contact and retain	
19	the evidence from other studies in trying to	19	outside experts to advise them and then to	
20	you know, so it would be separate from, like,	20	publish articles in the literature.	
21	because he asked the question, would you do a	21	You've done it yourself; correct?	
22	systematic review? You know, meta-analysis. No.	22	MS. PARFITT: Objection. Form.	
23	Because there have been so many already.	23	You may answer.	
24	Q. Have you undertaken that project yet or	24	A. Yeah. I have actually been, you know,	
25	is this just something you're thinking of?	25	I have worked with Eli Lilly on systematic	
	Dags 202			_
	Page 505		Pas	ge 305
1	Page 303 A Veah I'm thinking about	1		ge 305
1	A. Yeah. I'm thinking about	1 2	reviews of diabetes medications.	ge 305
2	A. Yeah. I'm thinking aboutQ. I'm sorry. Let me finish.	2	reviews of diabetes medications. And to a point of clarification, I was	ge 305
2 3	A. Yeah. I'm thinking aboutQ. I'm sorry. Let me finish.This is something you're just thinking about	2 3	reviews of diabetes medications. And to a point of clarification, I was not paid by them, but I was an expert on that,	ge 305
2 3 4	A. Yeah. I'm thinking about Q. I'm sorry. Let me finish. This is something you're just thinking about doing in the future?	2 3 4	reviews of diabetes medications. And to a point of clarification, I was not paid by them, but I was an expert on that, which is sort of a strange arrangement; right?	ge 305
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2 3 4 5 6	 A. Yeah. I'm thinking about Q. I'm sorry. Let me finish. This is something you're just thinking about doing in the future? A. In the future. But I have conceptualized, if I were to do that, that's what 	2 3 4 5 6	reviews of diabetes medications. And to a point of clarification, I was not paid by them, but I was an expert on that, which is sort of a strange arrangement; right? You don't get paid, but you're still working for. But, you know, that's my area of expertise. So,	ge 305
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	Dags 206			Daga 209
1	Page 306	1	on time and other considerations	Page 308
1	to write something up and say, you know what, it	$\begin{array}{ c c }\hline 1\\ 2 \end{array}$	on time and other considerations.	
2 3	increases the risk of cancer, decreases, then, yes, I'd disclose that.	3	Q. And, again, focusing my question very specifically, the case-control studies on talc	
4	Q. And just to go over that point	4	and ovarian cancer, the cohort studies on talc	
5	A. Yeah.	5	and ovarian cancer, the meta-analysis on tale and	
6	Q when you wrote the editor about Up	6	ovarian cancer that you've reviewed in this case	
7	To Date, suggesting that they update their	7	and that you've cited in your expert report in	
8	website regarding talc and ovarian cancer, you	8	this case, none of those are bound by a	
9	did not disclose that, at that time, you were a	9	protective order that would prevent you from	
10	paid retained plaintiffs' expert; is that	10	reading them, analyzing or publishing on them;	
11	correct?	11	correct?	
12	A. Yes. But I asked them to clarify that	12	A. None of them are restrictive.	
13	this was just to update the references, if you	13	Everybody has access. I had, too.	
14	look at them.	14	Q. Okay. You talked briefly about the	
15	Q. Now, going back to what this	15	Centers for Disease Control this morning.	
16	conceptualizing you're having of potentially one	16	A. Yes.	
17	day publishing something about talc and ovarian	17	Q. Have you ever worked with them?	
18	cancer, okay, that's what I'm asking about.	18	A. No. I've applied for grants with them,	
19	Are we on the same page?	19	and I wasn't funded, but I'm aware of them.	
20	A. Yeah.	20	Yeah.	
21	Q. Wait. I just want you to know what I'm	21	Q. Have you ever conducted a	
22	asking about. Okay?	22	population-based, case-control study yourself?	
23	A. Okay.	23	A. Yes.	
24	Q. Now, you would agree with me, you	24	Q. As principal investigator?	
25	mentioned this morning there were confidentiality	25	A. Yes.	
	Page 307			Page 309
1		1	O. Have you done so for cohort studies?	Page 309
1 2	orders in place. But you'd admit that all of the	1 2	Q. Have you done so for cohort studies?A. No. Not a cohort study.	Page 309
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	orders in place. But you'd admit that all of the case-control epidemiology and all the cohort epidemiology and all the meta-analysis that you've reviewed are all out there in the published literature; correct? A. The majority of them, studies are, yeah. I mean, Taher is not out in the literature. It's still in somewhere. Q. There's no there's no meta-analysis cohort study or case-control study you're aware of that is controlled or by some sort of protective order that would limit you citing it in some sort of review; correct? MS. PARFITT: Objection. Form. A. So, first of all, yeah. As you know, Taher is sort of not published. So I don't know how much of the data you can use. But in terms of protective, I don't know all the rules about what you can use and not use. So, I mean, it's just more my unfamiliarity with the process, but nothing if you're asking the question, is something preventing me from doing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Not a cohort study. Q. Could we go to Langseth, whatever exhibit number that is? MR. TISI: I've got it. It's Exhibit 21. I've got a copy of it here. MS. PARFITT: Yeah. I know. MR. TISI: Do you mind me giving our copy? MR. KLATT: No. Not at all. BY MR. KLATT: Q. I just have a few more questions. You were already asked about Langseth, but I just have a few more questions for you. At the time the Langseth study was published, you would agree with me, Doctor MS. PARFITT: I'm sorry, Mike. I didn't hear your question. I'm sorry. Q. Yeah. Let me start over. MS. PARFITT: I appreciate that. Q. I'm talking about the Langseth paper that we've marked as Exhibit 21; is that correct?	Page 309

		Daga 210			Page 212
1	the group is much larger than these falls	Page 310	1	it in and of itself was not statistically	Page 312
$\begin{array}{ c c }\hline 1\\ 2\end{array}$	the group is much larger than these folks. Q. Well, these happened to be		1 2	it, in and of itself, was not statistically significant; correct?	
3	epidemiologists on the IARC working group;		3	MS. PARFITT: Object to the form.	
4	correct?		4	A. Yes. But it was consistent with the	
5	A. I don't know all their qualifications.		5	overall estimates.	
6	Q. Do you know any of those people		6	Q. And the cohort study didn't show an	
7	personally who are listed as authors on		7	increased risk. And the two cohort studies since	
8	Exhibit 21?		8	Langseth have not shown an increased risk of	
9	A. No.		9	ovarian cancer in talc users; correct?	
10	Q. I'll represent to you that they're		10	MS. PARFITT: Objection. Misstates the	
11	epidemiologists. You would agree with me, that		11	evidence.	
12	if you turn over to Page 2, they listed 14		12	A. I see that, A, two of the cohort	
13	population-based, case-control studies up at the		13	studies have showed an excess risk, which is not	
14	top, and then they had six more hospital-based,		14	statistically significant. One study has showed	
15	case-control studies; correct?		15	statistically significant increased risk, and the	
16	A. Yes.		16	third studies have showed, you know, risk	
17	Q. At this time, there was one cohort		17	estimates lower than one, but their upper bounds	
18	study all on the subject of talc and ovarian		18	are entirely consistent with what we see here and	
19	cancer at the time; correct?		19	subsequent to this.	
20	A. Yes.		20	Q. So the population-based, case-control	
21	Q. You would admit that the		21	studies collectively show an increased risk. But	
22	population-based, case-control studies did not,		22	they're inconsistent; correct?	
23	consistently across the board, show a		23	A. No.	
24	statistically significant increased risk		24	MS. PARFITT: Objection.	
25	according to the table in Exhibit 21, the		25	A. I mean, let's go to Penninkilampi. I	- 1
		Page 311			Page 313
1	Langseth paper. Some were statistically		1	mean, they clearly opine that	- 1
2	significant, and others were not; correct?		2	Q. I'm asking you about Langseth.	
3	A. Yeah. But I mean, I don't view		3	A. Why are we looking at 2008 when we are	
4	statistical significance as		4	in 2019?	
5	Q. Doctor		5	Q. Because I'm asking the questions.	
6	A areas of consistency.		6	A. Okay.	
7	Q. Doctor, I just asked whether they were		7	Q. You would agree with me that, of the	
8	statistically significant.		8	three study designs, cohort studies,	
9	A. No. All of them were not statistically		9	hospital-based, case-control studies and	
10	significant.		10	population-based, case-control studies, only one	
11	Q. And we're talking about the 14		11	of those three study designs shows an overall	
12	population-based, case-control studies in the		12	increased risk of ovarian cancer in talc users;	
. 10	Langseth paper as of 2008; correct?		13	correct?	
13				And Disputer City is 3.51	
14	A. Yes. But I view them as consistent.		14	MS. PARFITT: Objection. Misstates the	
14 15	A. Yes. But I view them as consistent.Q. And the hospital-based, case-control		14 15	evidence.	
14 15 16	A. Yes. But I view them as consistent. Q. And the hospital-based, case-control studies that are on Page 2 of the Langseth paper,		14 15 16	evidence. A. No. I mean, at least at that time, you	
14 15 16 17	A. Yes. But I view them as consistent. Q. And the hospital-based, case-control studies that are on Page 2 of the Langseth paper, the six the hospital-based, case-control		14 15 16 17	evidence. A. No. I mean, at least at that time, you had one, you know, cohort study. I believe that	
14 15 16 17 18	A. Yes. But I view them as consistent. Q. And the hospital-based, case-control studies that are on Page 2 of the Langseth paper, the six the hospital-based, case-control studies, none of them were statistically		14 15 16 17 18	evidence. A. No. I mean, at least at that time, you had one, you know, cohort study. I believe that all of them show an excess risk, which is	
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		D 214		p 2	1.0
		Page 314		Page 3.	16
1	correct?		1	things you had reviewed was an Exhibit 47 to	
2	A. Sorry. Just give me a second.		2	Imerys employee Julie Pier's deposition.	
3	Yeah. The Bradford Hill overviews as one.		3	Do you recall that?	
4	Q. And you know, Sir Bradford Hill himself		4	A. Yes. If you can show me that.	
5	said that, in evaluating consistency, you have to		5	MR. KLATT: Sure.	
6	look at consistency across different study		6	THE WITNESS: Thank you.	- 1
7	designs; correct?		7	MR. KLATT: I'm sorry. I'm sorry.	
8	A. Yeah. And times and places and other		8	THE WITNESS: Exhibit	
9	things.		9	MR. KLATT: Yeah. Let's mark it as the	- 1
10	Q. But I'm correct that Dr. Bradford or		10 11	next exhibit. And that would be 33; is that correct?	- 1
11 12	Sir Bradford Hill said that you have to look at consistency across different study designs;		12	MS. PARFITT: 32.	- 1
13	correct?		13	COURT REPORTER: Here is 32 that you	- 1
14	A. That's what I state in my testimony, as		14	haven't used.	- 1
15	well in my report cites that specific phrase,		15	MR. KLATT: Let me do this. Yes. That	- 1
16	consistency across study designs, times and		16	will be 32.	- 1
17	places. So I am not you know, I am, in fact,		17	(Chart marked Exhibit 32.)	- 1
18	quoting him when I cite that.		18	MR. TISI: The chart?	- 1
19	Q. You said, on Page 15 of your report,		19	MR. KLATT: Yes.	- 1
20	that, "Talc-based body powders are used		20	BY MR. KLATT:	- 1
21	habitually for months or years rather than just a		21	Q. I'm going to show you what's been	- 1
22	single application"; correct?		22	marked as Exhibit 32 to this deposition. But for	- 1
23	A. Where is that?		23	future record references, it also has, in the	- 1
24	MS. PARFITT: Page 15.		24	upper right-hand corner, a photocopy, Exhibit	- 1
25	Q. Page 15.		25	No. 47; correct?	- 1
	<u> </u>				- 1
					_
		Page 315		Page 3	17
1	A. Where is that? I'm sorry. Which part	Page 315	1		17
1 2	A. Where is that? I'm sorry. Which part of it? 15. I know I have 15. Is it the last	Page 315		A. Yeah.	17
2	of it? 15. I know I have 15. Is it the last	Page 315	1 2 3	A. Yeah.Q. Exhibit 47 was the exhibit number at	17
		Page 315	2	A. Yeah.Q. Exhibit 47 was the exhibit number atMs. Pier's deposition, and Exhibit 32 is the	17
2 3	of it? 15. I know I have 15. Is it the last paragraph or MS. PARFITT: Yeah.	Page 315	2 3	A. Yeah.Q. Exhibit 47 was the exhibit number at	17
2 3 4	of it? 15. I know I have 15. Is it the last paragraph or MS. PARFITT: Yeah. A. I don't see okay. Yeah.	Page 315	2 3 4	 A. Yeah. Q. Exhibit 47 was the exhibit number at Ms. Pier's deposition, and Exhibit 32 is the exhibit number we're marking this today; correct? A. Okay. 	17
2 3 4 5	of it? 15. I know I have 15. Is it the last paragraph or MS. PARFITT: Yeah.	Page 315	2 3 4 5	A. Yeah. Q. Exhibit 47 was the exhibit number at Ms. Pier's deposition, and Exhibit 32 is the exhibit number we're marking this today; correct?	17
2 3 4 5 6	of it? 15. I know I have 15. Is it the last paragraph or MS. PARFITT: Yeah. A. I don't see okay. Yeah. Q. And what did counsel just point out to	Page 315	2 3 4 5 6	 A. Yeah. Q. Exhibit 47 was the exhibit number at Ms. Pier's deposition, and Exhibit 32 is the exhibit number we're marking this today; correct? A. Okay. Q. Would you agree with me that you don't 	17
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	Page 318			Page 320
1	Q. And where on that first one, and we're	1	on your report where I think you refer to it.	_
2	looking at the very first line across the top of	2	A. I know it's in the biologic	
3	Exhibit 32	3	plausibility section somewhere.	
4	A. Sure.	4	Q. Look on page I believe it's Page 61	
5	Q where in the world does it say that	5	of your report.	
6	that was a sample of talc that ended up in	6	A. Yes.	
7	Johnson & Johnson's talc-based body powder	7	Q. No. I'm sorry. It's Page 59 of your	
8	products?	8	report. And it's the third paragraph down.	
9	A. Well, my understanding, and I can share	9	A. Mm-hmm.	
10	that, that this was this was that that	10	Q. And you say, in the middle of the third	
11	testimony was given that this was a testing of	11	paragraph, "In studies of human mesothelial	
12	mines that was being mined by Imerys or I	12	cells, both nonfibrous talc and asbestos have	
13	mean, that contained asbestos.	13	shown evidence of genotoxicity," and the	
14	Whether it ended up in baby powder was not	14	reference is 109, and my understanding is	
15	the question. The question was: Does talc	15	reference 109 is the Shukla paper published in	
16	contain asbestos?	16	2009; correct?	
17	Q. Did plaintiffs' counsel ask you to make	17	A. Where are you referring? I'm sorry.	
18	that assumption?	18	In Page 59?	
19	A. No. No.	19	Q. Page 59 of your report, third	
20	Q. Okay. Well, then, I'm confused,	20	paragraph.	
21 22	because Imerys and its predecessors have tested	21	A. Yeah.Q. Second sentence.	
23	literally thousands of samples of talc from competitors, from their own mines, from mines	22 23	A. Yeah. It says here, should be Shukla.	
24	that are never used for cosmetic purposes or baby	24	Yeah.	
25	powder, so how can you tell me that the first	25	Q. Did you read the Shukla paper?	
	powder, so now can you ten me that the mst	23	Q. Did you read the Shakin paper.	
	Page 319			Page 321
1		1	A. I read you know, I didn't read it	Page 321
1 2	Page 319 sample on Exhibit 32 has anything to do with baby powder?	1 2	A. I read you know, I didn't read it line by line. But, yes, I read it.	Page 321
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	Page 322		Page 32 ²	4
1				1
	Q. Gene expression is something that	1	common in these lawsuits, wasn't associated with	
2 3	occurs in our bodies every day; correct? Trillions of times every day; correct?	2 3	pelvic inflammatory disease; correct?	
	A. Yeah. Yeah.	4	A. Again, I don't remember the papers. Sorry.	
5	Q. And changes in gene expression, in and	5	Q. All right. Well, it's on Page 58 of	
6	of themselves, don't establish genotoxicity;	6	your report and it's reference 122.	
7	correct?	7	A. Which page of my report?	
8	A. Yeah. And I'm not again, this, you	8	Q. Page 58 of your report that cites	
9	know, in the section on biologic plausibility,	9	reference 122.	
10	I'm not making this argument that tale is an	10	MS. PARFITT: Here's the article.	
11	established mutagen and, you know, whether it's a	11	Q. Do you see the reference?	
12	genotoxic or nongenotoxic carcinogen. I'm just	12	A. Yeah. Yeah.	
13	citing the studies.	13	Q. Do you see the reference in your	
14	So, I mean, again, I don't have that	14	report?	
15	expertise, and, you know, does it provide	15	A. Sure.	
16	evidence for or against biological plausibility	16	Q. And reference 122 is to the Rasmussin	
17	mechanisms.	17	paper from 2017 on pelvic inflammatory disease	
18	Q. Okay. But you don't have the expertise	18	and ovarian cancer; correct?	
19	to judge that; correct?	19	A. Yeah. And my citation is correct. I	
20	MS. PARFITT: Objection.	20	mean, about borderline ovarian. I don't misquote	
21 22	A. No. I have expertise to judge whether these studies suggest evidence of, you know,	21 22	the study.	
23	changes and we should probably just look at it	23	Q. I didn't say you misquoted it, but the	
24	give me a second.	24	study does stand for the proposition that the most common form of ovarian cancer, both in the	
25	Q. Sure.	25	U.S. and in these lawsuits, high-grade serous	
23	Q. Suic.	23	0.5. and in these lawsuits, ingh grade serous	
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	Page 323		Page 325	5
1		1		5
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	Page 326		r	Page 328
1	Page 326	1		age 328
1	paragraph starts with "to our knowledge";	1	Q. So the paper you cited, the 2017	
2	correct? A. Yeah.	2	Rasmussin paper on pelvic inflammatory disease and ovarian cancer is inconsistent with the	
3		3	theory that chronic inflammation causes	
4	Q. Okay. Go down one, two, three, to the	5		
5	fourth paragraph starting with "in the present study"?		high-grade serous ovarian cancer; correct? A. Let's go to Paragraph 3.	
6	A. Sure.	6 7	Q. Could you just answer my question?	
8	Q. And in that paragraph, tell me if I	8	A. Yeah. I'm trying to.	
9	correctly quote this sentence.	9	MS. PARFITT: Objection.	
10	"Conversely, no convincing associations	10	A. No. It isn't inconsistent.	
11	between PID," which is pelvic inflammatory	11	Because if you look at Paragraph 3, they	
12	disease, "and the risk of high-grade serous,	12	state, "Furthermore, we observed similarly	
13	mucinous, clear cell or endometrioid ovarian	13	increased risks of serous and mucinous borderline	
14	cancer were noted in the main analysis."	14	tumors associated with PID status. Furthermore,"	
15	Did I read that correctly?	15	and they also state, "Sensitivity analysis	
16	A. Yes.	16	revealed statistically significant increased risk	
17	Q. And then if you go down to the very	17	of low-grade serous and endometrial when using	
18	next paragraph that begins with "nevertheless."	18	data from the North American"	
19	A. Yeah. I see that, but I	19	So I don't think your and concerning the	
20	Q. Wait. Wait.	20	histologic subtypes, indications of risk of	
21	A. No. No. I need to answer your	21	low-grade serous cancers were noted in the main	
22	question.	22	analysis. I wasn't disaggregating. But this	
23	Q. I'm just asking you, first of all, if	23	entirely consistent with what I quote here, that	
24	I'm reading this correctly.	24	you increase serous type and you increase	
25	A. Sure.	25	low-grade type and you increase histologic.	
	Page 327		F	Page 329
1	Q. In the next paragraph that begins with	1	You are trying to disaggregate this into a	
2	"nevertheless," do you see what I'm talking	2	high-grade serous. I don't know what's in the	
3	about?	3	lawsuit. I'm really not opining on	
4	A. Yeah.			
		4	Q. I'm not trying to disaggregate	
5	Q. There's a sentence that says,	4 5	Q. I'm not trying to disaggregate anything, Doctor. I'm saying Rasmussin, the	
5 6	Q. There's a sentence that says, midparagraph, "In contrast, no associations		anything, Doctor. I'm saying Rasmussin, the study that you	
		5	anything, Doctor. I'm saying Rasmussin, the	
6	midparagraph, "In contrast, no associations	5 6	anything, Doctor. I'm saying Rasmussin, the study that you	
6 7	midparagraph, "In contrast, no associations between pelvic inflammatory disease and	5 6 7	anything, Doctor. I'm saying Rasmussin, the study that you A. Yeah.	
6 7 8	midparagraph, "In contrast, no associations between pelvic inflammatory disease and high-grade serous ovarian cancer were observed"; correct? Did I read that correctly?	5 6 7 8	anything, Doctor. I'm saying Rasmussin, the study that you A. Yeah. Q. The study that you chose to cite A. Sure. Q in your article indicates there's no	
6 7 8 9	midparagraph, "In contrast, no associations between pelvic inflammatory disease and high-grade serous ovarian cancer were observed"; correct?	5 6 7 8 9	anything, Doctor. I'm saying Rasmussin, the study that you A. Yeah. Q. The study that you chose to cite A. Sure.	
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1 serous that doesn't occur very often. My 2 question is about high-grade serous ovarian 3 cancer in the evidence from the Rasmussin paper, 4 and they say clearly twice, that pelvic 5 inflammatory disease is not associated with 6 high-grade serous ovarian cancer; is that 7 correct? 8 A. That's what they state in the study. 9 But they also state clearly that serous ovarian 1 cancer. So if we disaggregate it, then we ha 2 to disaggregate the way they have defined it 3 Q. And when we disaggregate, you con 4 the conclusion that inflammation is associate 5 with borderline ovarian cancer. But, in 6 fairness, you have to come to the conclusion 7 inflammation is not associated with high-grade serous ovarian cancer? 8 serous ovarian cancer? 9 MS. PARFITT: Objection.	ne to
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	ide
I 9 But they also state clearly that serous ovarian I 9 MS PARHITI Objection	
10 cancer is associated with PID status. So that's 10 Q. If you're being objective; correct?	
11 also clearly stated. 11 MS. PARFITT: Objection. Misstates	,
Q. And if, indeed, as they state, there is	
13 no association between high-grade serous ovarian 13 A. I am being objective. I am providing	
14 cancer and pelvic inflammatory disease, that's 14 that they conclude, not I conclude, that, you	
15 inconsistent with the theory that inflammation 15 know, inflammation is PID, you know, it's j	
16 causes high-grade serous ovarian cancer; correct? 16 one aspect of inflammation. PID is associated as the serous ovarian cancer; correct?	
MS. PARFITT: Objection. Form. 17 with serous ovarian cancer. And, yes, it is not a serious ovarian cancer. And, yes, it is not a serious ovarian cancer.	
18 A. So, again, you know, first of all, you 18 associated with high-grade epithelial ovaria	1
19 know, I other people will opine to the 19 cancer. 20 high sign and si	
20 biologic sort of arguments about inflammation and 20 Q. You talked with Mr. Zellers earlier	
21 ovarian cancer. And I did not disaggregate 21 today about recall bias, correct, and how it of a proposition and I don't think this study is	an
22 specific, and I don't think this study is 23 inconsistent with what I state here. And I note 22 operate in case-control studies? 23 A. I don't recall the details.	
25 So this is entirely consistent with the 25 discussed	
Page 331	
	Page 333
1 inflammation hypothesis And Liust vou know 1 A Yes	Page 333
1 inflammation hypothesis. And I just, you know 1 A. Yes. 2 O. In your report, you cited what you 2 O correct?	Page 333
2 Q. In your report, you cited what you 2 Q correct?	
2 Q. In your report, you cited what you 3 thought was consistent with the inflammation 2 Q correct? 3 A. Yes. And I'm going to take a break	
2 Q. In your report, you cited what you 3 thought was consistent with the inflammation 4 theory, but you didn't cite the evidence from 2 Q correct? 3 A. Yes. And I'm going to take a break a minute.	in
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	Page 334		Page 336
1	mouth what might cause her ovarian cancer, that	1	eliminate for the possibility of recall bias.
2	may bias the results; correct?	2	Others may design it differently.
3	MS. PARFITT: Objection.	3	THE WITNESS: I'm going to take a
4	A. There's lots of different questions you	4	break.
5	could ask them. You know, I would have, if I had	5	MR. KLATT: Sure.
6	designed a study, I would have asked many other	6	THE VIDEOGRAPHER: Off the record,
7	questions.	7	4:30 p.m.
8	Q. And would you have asked that one, "Do	8	(A recess was taken.)
9	you have preconceived notions as to what might	9	THE VIDEOGRAPHER: Back on the record.
10	have caused your ovarian cancer," before you	10	4:36 p.m.
11	entered the study?	11	BY MR. KLATT:
12	A. I don't you know, I don't I	12	Q. Doctor, are you board certified in
13	haven't thought about that conceptual or new	13	epidemiology?
14	study. I'm not sure that is that important	14	A. No.
15	question to ask.	15	Q. Are you a member of the American
16	Q. It wouldn't be an important question to	16	College of Epidemiology?
17	ask women entering a study, a case-control	17 18	A. No.
18 19	study A. Sure.	19	Q. Are you a member of the Society for Epidemiologic Research?
20	Q women who have ovarian cancer, "Do	20	A. No.
21	you have a preconceived notion about what caused	21	MR. KLATT: All right. I'm going to
22	your ovarian cancer?"	22	turn it over to Mr. Locke. Thank you for your
23	A. You know, I've done designed	23	time.
24	case-control studies of etiology cases and	24	THE WITNESS: Thank you.
25	outcomes. I've never asked the participants	25	THE VIDEOGRAPHER: Off the record,
			,
	Page 335		Page 337
1	about what is your preconceived notions about	1	4:36 p.m.
2	certain outcomes.	2	(A recess was taken.)
3	I mean, I'm just trying to understand, why	3	THE VIDEOGRAPHER: Back on the record,
4	would you ask that, because	4	4:38 p.m.
5	Q. Because you're trying to eliminate bias	5	CROSS-EXAMINATION
6	from the study; correct?	6	BY MR. LOCKE:
7	A. Yeah.	7	Q. Doctor, my name is Tom Locke. I
8	Q. And if you enter the study with a	8	represent the Personal Care Products Council.
9	preconceived notion what caused your ovarian cancer, you already have a bias; correct?	9	Prior to this litigation, had you ever heard of the Personal Care Products Council?
	cancer von arready have a bias' correct/	10	Of the Personal Care Products Council/
10	· · · · · · · · · · · · · · · · · · ·	11	
11	MS. PARFITT: Objection.	11 12	A. No.
11 12	MS. PARFITT: Objection. A. But I mean, aren't you introducing bias	12	A. No.Q. Sometimes it goes by the name of PCPC.
11 12 13	MS. PARFITT: Objection. A. But I mean, aren't you introducing bias by asking these questions? "Okay, what is your	12 13	A. No.Q. Sometimes it goes by the name of PCPC.Have you ever heard of that?
11 12 13 14	MS. PARFITT: Objection. A. But I mean, aren't you introducing bias by asking these questions? "Okay, what is your preconceived notion?" I'm trying to understand	12 13 14	A. No.Q. Sometimes it goes by the name of PCPC.Have you ever heard of that?A. No.
11 12 13 14 15	MS. PARFITT: Objection. A. But I mean, aren't you introducing bias by asking these questions? "Okay, what is your preconceived notion?" I'm trying to understand this question. I just don't think that	12 13 14 15	A. No.Q. Sometimes it goes by the name of PCPC.Have you ever heard of that?A. No.Q. Previously, the Personal Care Products
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Sonal Singh, M.D., M.P.H.

Page 338 Page 340 today, have you worked with any of the A. I remember asking about this specific plaintiffs' lawyers with whom you've had dealings trial. I have not asked for other trial 2 3 3 in talc? testimony. I don't think. 4 A. Yeah. I mentioned that I worked with 4 Q. When you say "this specific trial," 5 Attorney Restaino in the atorvastatin that is 5 what do you mean? A. When I said -- you know, I said, in 6 listed on my testimony. 6 7 Q. Anyone else? 7 this litigation, have epidemiology testimony been 8 8 submitted. And I have asked for it. Yeah. A. No. 9 9 Q. Would it be relevant to you that other Q. Have you worked with the Beasley Allen 10 firm? 10 scientists have analyzed the very same issues A. They're not -- I don't know if they're 11 that are encompassed in your report and testified 11 part of this talc. The name sounds familiar. I on behalf of defendants in other talc litigation? 12 12 just don't know the name of the lawyers. 13 A. Yeah. And as you see that, I have not 13 Q. Right. They're part of the lead even had a chance to review the expert report 14 14 plaintiffs' counsel in this multi-district 15 15 of -- on behalf of the plaintiffs that were 16 litigation. 16 submitted in the list. A. But I just have had correspondence with 17 So, yes, it will be nice to do that. A, how 17 these lawyers. So, you know, I may have had -much time; and, B, you know, I think it would 18 18 received, I don't know, documents or -- I don't probably be more prudent to wait for the 19 19 20 know if invoices or something that may have. But epidemiologists on this particular case. 20 I don't -- I haven't, like, corresponded with the But, you know, as you said, I haven't even 21 21 22 lawyers of Beasley Allen. 22 had the chance to review the plaintiffs' experts. 23 Q. What I'm asking about is whether you 23 And, you know, I asked for defendants' expert, had worked with the Beasley Allen firm prior to 24 24 you know, report. 25 O. You asked for defendants' expert this talc litigation. 25 Page 339 Page 341 A. I have listed the -- you know, reports in this litigation. listed the cases I worked for. I don't remember 2 2 A. Sure. 3 the name of the counsels and, you know, who were O. But you didn't ask for defendants' on the firms. So if it ended up that they were 4 expert reports, deposition transcripts or trial involved in Viagra or something else, that's just 5 testimony in the prior talc litigation? 6 a recollection issue. A. How do I know? I mean, I'm not very 6 7 7 Q. Okay. Mr. Klatt asked you about familiar with how these, you know, different 8 materials authored by defense experts. Let me 8 trials are occurring, what you can share, which 9 9 elaborate on that a little bit. attorneys are involved in which trials. 10 Are you aware that various defense experts 10 I'm sorry. I didn't ask for it. I know authored reports in connection with prior talc that, but I'm just not familiar with that 11 11 process, what they can share. 12 litigation? 12 13 Q. Okay. Can you go to Page 10 of your 13 A. No. I'm not aware. Q. Are you aware that there were prior report. And I guess there are two exhibits to 14 14 it, or it's referred to in two exhibits. 15 talc trials? 15 16 A. I mean, I have seen it in the news 16 Are you looking at Exhibit 10 there? that -- I don't know if they're in state court, 17 A. Exhibit 10. 17 federal court, you know. I see it in the news. Q. On the front page. 18 18 MS. PARFITT: It's your report. Yes. Q. Did you --19 19 A. California or something. Yeah. I'm 20 A. Exhibit 10. Yes. 20 Q. So if you could go to Page 10, I'd 21 not aware. 21 22 Q. Did you ask for the testimony of any 22 appreciate that. And on Page 10, you're 23 defense experts who may have testified regarding 23 discussing, among other things, the advantages epidemiology in connection with that other talc and disadvantages of cohort and case-control 24 24 litigation trials? 25 studies; is that correct?

		Page 342		Page 344	ı
1	A. Yes.		1	be useful, because you couldn't find all of the	
2	Q. Okay. If you would look at the		2	lung cancer cases.	
3	paragraph that begins with the phrase		3	A. Yes. And that sort of applies to	
4	"case-control studies."		4	Gonzalez. And it was a six-month study, and some	
5	Do you see that there?		5	of the other cohort studies that were of limited	
6	A. Yeah.		6	duration.	
7	Q. Okay. You're explaining your opinion		7	So, yes, I mean, I don't know about the time	
8	why case-control studies have some advantages		8	course exactly of lung cancer risk, but can apply	
9	over cohort studies in that paragraph; is that		9	to various outcomes.	
10	correct?		10	Q. Okay. So what is the latency period	
11	A. No. Not necessarily. I mean, that		11	for perineal talc exposure and ovarian cancer?	
12	just talks about the strength and weaknesses of		12	A. I do not have I don't know, because,	
13	various studies designs. I mean, in fact, you		13	you know, I don't again, I don't elucidate the	
14	know, it talks about whether, you know, that, in		14	mechanism of ovarian cancer and the precise link.	
15	fact, it says exposure is ascertained		15	So I cannot tell you that X number of days after	
16	retrospectively.		16	perineal talc or months after. I know that it is	
17	So I'm just talking about the strength and		17	long-term. It could be months to years. And	
18	limitations of various designs.		18	that's as much as I can say.	
19	Q. Okay. I was using advantages and		19	Q. So your example, when you were talking	
20	disadvantages.		20	about 12 months, actually, that really wouldn't	
21	Is there a significant difference between		21	be a problem or we don't know whether that's a	
22	those two?		22	problem or not because it could be months?	
23 24	A. That's just the term we use. Yeah.		23	A. No.	
25	Q. Okay. Now, one of the strengths, in		24 25	MS. PARFITT: Objection.	
23	your opinion, of a case-control study, is that it		23	THE WITNESS: Sorry.	
					_
		Page 343		Page 345	
1	captures the entire time period when an ovarian	Page 343	1		
1 2	captures the entire time period when an ovarian cancer illness could occur; is that correct?	Page 343	1 2	Page 345 A. So, yeah, months would be a problem. It's mostly I mean, yes, we have some bounds,	
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١.		Page 346			Page 348
1	Q. If you look at the next paragraph,		1	not even a citation. I mean, it's I feel	
2	first sentence, last clause.		2	that, and we were discussing that, you know,	
3	A. Yeah.		3	could a randomized trial be here conducted. And	
4	Q. Other plaintiffs' experts have stated		4	to my mind, it would be unethical. So	
5	in their reports that the latency period could be		5	Q. Well, yeah. But then you say,	
6	decades.		6	"Defendants here have admitted this fact."	
7	Would you disagree with that?		7	And so I'm just wondering what brought you	
8	A. Yeah. I mean, when I say many years,		8	to that particular part midway in her deposition,	
9	it could be yeah, I just		9	the second day of her deposition of a three-day	
10	Q. You don't know?		10	deposition.	
11	A. I don't know the precise. I don't want		11	A. Some of this has, you know it just	
12	to quantify the number of years.		12	doesn't I don't know why I would, you know,	
13	Q. Okay. I want to shift topics a little		13	put it but it's sort of it's even	
14	bit here. You reference Linda Loretz's		14	irrelevant if you take her out of it. Because,	
15	deposition transcript in I think once in your		15	you know, it's like, are we really going to do a	
16	report.		16	randomized trial?	
17	If you would go to Page 7, I believe it is.		17	Q. I agree with you. It's irrelevant.	
18	It's in a footnote. Footnote 1.		18	A. Yeah.	
19	A. Mm-hmm.		19	Q. If you could go to Page 62 of your	
20	Q. Now, did you read the entirety of		20	report. You've got a caption there "Cosmetic	
21	Dr. Loretz's deposition transcript?		21	Expert Review Panel Report."	
22	A. Again, these are so many documents. I		22	Do you see that?	
23	mean, I reviewed, you know, not but I don't		23	A. Yes.	
24	know if I read the whole transcript. Yeah.		24	Q. Roman numeral XII?	
25	Q. Do you know how many days she was		25	A. Yes.	
		Page 347		I	Page 349
1	deposed?	J	1	Q. Do you know what the name of the	
2	A. I don't recall.		2	organization is that you're referring to in that	
3	Q. More than one day?		3	paragraph?	
4	A. I don't know that. I'm sorry.		4	A. I don't know the name.	
5	Q. So her deposition transcript, I'll		5	Q. Do you know if Dr. Loretz testified	
6	represent to you, is 1,133 pages in length.		6	regarding that review?	
7	Did you read all that?		7	A. If I have cited her, then I have.	
8	A. No. I didn't agree that I read all of		8	Q. Well, you didn't cite her on this	
9	them either. Yeah.		9	portion. That's why I'm asking about it.	
10	Q. Okay. I was a little confused because		10	A. I don't know. I mean, you're asking	
11	I thought you had said, for hers, that you had		11	all these different names. They're all if I	
12	read the whole thing.		12	haven't cited her, then I haven't reviewed it.	
13	A. No. I didn't say I had read you		13	Q. Okay. Have you heard of the Cosmetic	
14	know, I have read the transcript, but it doesn't		14	Ingredient Review?	
15	mean that I read every, you know, precise word		15	A. Yes.	
			1.)		
10					
16 17	and precise		16	Q. Sometimes referred to as CIR?	
17	and precise Q. Do you know what her background is?		16 17	Q. Sometimes referred to as CIR?A. Yes.	
17 18	and precise Q. Do you know what her background is? A. No, I don't.		16 17 18	Q. Sometimes referred to as CIR?A. Yes.Q. Dr. Loretz, in her deposition,	
17 18 19	and preciseQ. Do you know what her background is?A. No, I don't.Q. Do you know if she's a scientist?		16 17 18 19	Q. Sometimes referred to as CIR?A. Yes.Q. Dr. Loretz, in her deposition,references the CIR dozens of times, doesn't she?	
17 18 19 20	and precise Q. Do you know what her background is? A. No, I don't. Q. Do you know if she's a scientist? A. I don't remember, you know, the		16 17 18 19 20	 Q. Sometimes referred to as CIR? A. Yes. Q. Dr. Loretz, in her deposition, references the CIR dozens of times, doesn't she? A. Again, as I said, I didn't review the 	
17 18 19 20 21	and precise Q. Do you know what her background is? A. No, I don't. Q. Do you know if she's a scientist? A. I don't remember, you know, the specifics of the transcript.		16 17 18 19 20 21	 Q. Sometimes referred to as CIR? A. Yes. Q. Dr. Loretz, in her deposition, references the CIR dozens of times, doesn't she? A. Again, as I said, I didn't review the entirety of the thousand pages. 	
17 18 19 20 21 22	and precise Q. Do you know what her background is? A. No, I don't. Q. Do you know if she's a scientist? A. I don't remember, you know, the specifics of the transcript. Q. How is it that you picked out this		16 17 18 19 20 21 22	 Q. Sometimes referred to as CIR? A. Yes. Q. Dr. Loretz, in her deposition, references the CIR dozens of times, doesn't she? A. Again, as I said, I didn't review the entirety of the thousand pages. Q. Okay. I'm just trying to understand 	
17 18 19 20 21 22 23	and precise Q. Do you know what her background is? A. No, I don't. Q. Do you know if she's a scientist? A. I don't remember, you know, the specifics of the transcript. Q. How is it that you picked out this quote then on that's Footnote 1 or this		16 17 18 19 20 21 22 23	 Q. Sometimes referred to as CIR? A. Yes. Q. Dr. Loretz, in her deposition, references the CIR dozens of times, doesn't she? A. Again, as I said, I didn't review the entirety of the thousand pages. Q. Okay. I'm just trying to understand what you did review and you didn't. You wrote a 	
17 18 19 20 21 22	and precise Q. Do you know what her background is? A. No, I don't. Q. Do you know if she's a scientist? A. I don't remember, you know, the specifics of the transcript. Q. How is it that you picked out this		16 17 18 19 20 21 22	 Q. Sometimes referred to as CIR? A. Yes. Q. Dr. Loretz, in her deposition, references the CIR dozens of times, doesn't she? A. Again, as I said, I didn't review the entirety of the thousand pages. Q. Okay. I'm just trying to understand 	

	Page 352
1 when she testified about that. 1 A. Yes.	
2 A. So, as you can see, it's reference to 2 MS. PARFITT: Objection.	
3 the published report, and, you know, I 3 A. But specific to talc, you would wa	ant
4 reviewed again, even that was lengthy 4 more diverse representation with gynecole	
5 document, and, you know, I wanted to review that 5 oncologists, epidemiologists.	-
6 for completeness and understand that. 6 So it's not that it was a criticism of the	2
7 Q. Did you read the entirety of that 7 CIR review panel or whoever was on that	t as a
8 report? 8 dermatologist, but specific to it, did they l	
9 A. As much as I can. Not every word in 9 the expertise to and maybe they did, bu	ıt I'm
10 every sentence. 10 just pointing that out.	
Q. Okay. Do you know if the FDA plays a 11 Q. So you don't know, one way or an	nother,
role in the CIR's review that you're referring to 12 whether they had the expertise?	,.
13 on Page 62 of your report? 13 A. Yeah. I mean, from my understan	
A. I'm not aware of the specific 14 they didn't have expertise in carcinogenic	city and
 15 composition, but I know that FDA is attends or 16 is a member or has some sort of role there. 15 epidemiology. 16 Q. What do you base that on? 	
	f the
17 Q. Do you know who the Consumer Federation 17 A. Yeah. I mean, you know, some of 18 of America is? 18 names that are here, they were dermatolog	
19 A. No. 19 That's sort of my understanding.	ogists.
20 Q. Do you know if they play any role in 20 Q. Did you look them up and investig	gate
21 the CIR report? 21 what they do or what they have done in the	~
22 A. I don't know. And maybe it's in the 22 careers?	nen
23 study and I can't tell you offhand who is in this 23 A. No. I have not.	
24 panel. 24 Q. Okay. So you're criticizing them a	as
25 Q. It's also in Dr. Loretz's deposition. 25 not having the capability of doing the revi	
	,
Page 351	Page 353
1 That's the reason I'm exploring it. 1 but you don't really know their expertise?	
2 Do you know that one of the missions of the 2 MS. PARFITT: Objection. Missta	ates his
3 Consumer Federation of America is to represent 3 testimony.	
4 consumers in connection with Cosmetic Ingredient 4 A. Yeah. It doesn't say first of all,	
5 Reviews? 5 it's not a criticism. It just says, what is the	ie
6 A. I'm not aware of that. 6 composition of the panel. It says it was	damialaan
7 Q. Okay. Do you know who was on the panel 8 of the CIR review? 7 composed of, you know, expertise in epid 8 and carcinogen so it's just sometimes	defillology
9 A. No. 9 panels and it may have been very approx	opriate
10 Q. Do you know whether there were 10 for the 100 and whatever products that we	•
10 Q. Do you know whether there were 10 for the 100 and whatever products that we	CIC
11 toxicologists who were part of the panel?	
11 toxicologists who were part of the panel? 12 A. I don't know that. 13 evaluated by that panel. 14 evaluated by that panel. 15 O. Okay. One of the things that you	I
12 A. I don't know that. 12 Q. Okay. One of the things that you	
12 A. I don't know that. 12 Q. Okay. One of the things that you 13 Q. You criticize the panel makeup because 13 say	
12 A. I don't know that. 12 Q. Okay. One of the things that you	
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 12 Q. Okay. One of the things that you 13 say 14 A. Sure.	v
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Okay. One of the things that you 17 Sure. 18 A. Sure. 19 Q. Okay. One of the things that you 19 Sure. 10 Q. Okay. One of the things that you 10 Sure. 11 A. Sure. 12 Q. Okay. One of the things that you 11 Sure. 12 Q. Okay. One of the things that you 13 Sure. 14 A. Sure. 15 Q is that there was a the review	v nimal
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Do you see that? 12 Q. Okay. One of the things that you 13 say 14 A. Sure. 15 Q is that there was a the review 16 was limited or limited its assessment to an	v nimal
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Do you see that? 17 A. Yes. 18 Q. Okay. One of the things that you 19 say 11	v nimal
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Do you see that? 17 A. Yes. 18 Q. Do you know why dermatologists would be 18 asbestos. 19 Q. Okay. One of the things that you 19 say 11 A. Sure. 11 A. Sure. 12 Q. Okay. One of the things that you 11 say 12 A. Sure. 13 say 14 A. Sure. 15 Q is that there was a the review 16 was limited or limited its assessment to an 17 and clinical studies on talc that did not co	v nimal
12 A. I don't know that. 13 Q. You criticize the panel makeup because 14 it was "primarily composed of dermatologists." 15 A. Sure. 16 Q. Do you see that? 17 A. Yes. 18 Q. Do you know why dermatologists would be 19 relevant to a review of cosmetics? 20 A. Yes. I mean, yeah. But, of course, 21 the majority of cosmetics are on you know, 21 Q. Okay. One of the things that you 13 say 14 A. Sure. 15 Q is that there was a the review 16 was limited or limited its assessment to an 17 and clinical studies on talc that did not con 18 asbestos. 19 Do you see that? 20 A. Yes. I mean, yeah. But, of course, 21 Q. Okay. One of the things that you 21 A. Sure. 22 A. Sure. 23 A. Sure. 24 A. Sure. 26 A. Sure. 27 A. Yes. 28 A. Yeah. 29 A. Yeah. 21 Q. Okay. One of the things that you 29 aspect. 20 A. Sure. 21 A. Sure. 22 A. Sure. 23 A. Yeah. 24 A. Sure. 26 A. Yeah. 27 A. Yeah. 28 A. Yeah. 29 A. Yeah. 20 A. You would agree that the CIR review	v nimal ontain viewed
A. I don't know that. Q. You criticize the panel makeup because it was "primarily composed of dermatologists." A. Sure. Q. Do you see that? A. Yes. Q. Do you know why dermatologists would be relevant to a review of cosmetics? A. Yes. I mean, yeah. But, of course, applied on the skin. Yeah. It would be 12 Q. Okay. One of the things that you say. 13 say 14 A. Sure. 15 Q is that there was a the review was limited or limited its assessment to an and clinical studies on talc that did not considered as as a subsetos. 19 Do you see that? 20 A. Yes. I mean, yeah. But, of course, 21 applied on the skin. Yeah. It would be 22 all of the epidemiological studies that were	v nimal ontain viewed
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A. I don't know that. Q. You criticize the panel makeup because it was "primarily composed of dermatologists." A. Sure. Q. Do you see that? A. Yes. Q. Do you know why dermatologists would be relevant to a review of cosmetics? A. Yes. I mean, yeah. But, of course, applied on the skin. Yeah. It would be 12 Q. Okay. One of the things that you say. 13 say 14 A. Sure. 15 Q is that there was a the review was limited or limited its assessment to an and clinical studies on talc that did not considered as as a subsetos. 19 Do you see that? 20 A. Yes. I mean, yeah. But, of course, 21 applied on the skin. Yeah. It would be 22 all of the epidemiological studies that were	v nimal ontain viewed ere

	Page 354		Page 35	56
1	A. I don't know you know, I know that	1	they asked this statement is about the	
2	they reviewed the process and they looked at	2	question they asked. They asked the question,	- 1
3	studies, and I don't know if it was all	3	that talc fiber not containing asbestos, does it	- 1
4	epidemiologic studies, but I think and I	4	cause.	- 1
		5		- 1
5	understand that presumption was that talc does	_	So if they ask the question already, we know	- 1
6	not contain asbestos. I mean, that's what the	6	that, they presume there was no presence of. So	- 1
7	premise they started out with.	7	it's about the question that I'm stating it.	- 1
8	Q. Well, did the epidemiologic studies make a distinction between talc and its	8	Q. But the epidemiologic studies, when	- 1
9		9	they're analyzing talc use among women, they're	- 1
10	constituents or alleged constituents?	10	not making a distinction between talc that	- 1
11	A. Yeah. I mean, there are as I cite	11	contains or doesn't contain constituents.	- 1
12	in my report, there are they don't make	12	They're talking about women who use products;	
13	distinctions, but they some of the studies	13	correct?	
14	you know, some of the testimony we've discussed,	14	A. That is correct.	
15	some of the, you know, testing we've discussed,	15	Q. So if your theory is correct and talc	
16	and some, you know, small publications suggest	16	contains harmful substances in addition to talc,	
17	that talc may contain asbestos. So you have	17	then the epidemiologic studies would have	- 1
18	these evidence.	18	reviewed women's exposure to those constituents;	
19	But the CIR review was already carried out	19	correct?	
20	with the presumption that talc did not contain	20	A. Yeah. So, I mean so if you look at	
21	asbestos.	21	what I've written, the review was carried out	
22	Q. But they reviewed all of those studies	22	under the flawed assumption that cosmetic grade,	
23	that you referenced, or do you not know what they	23	you know, tale was did not contain that. And	
24	reviewed?	24	also limited to tale that did not contain. And	
25	MS. PARFITT: Objection.	25	also concluded that there was no evidence of talc	
				- 1
	Page 355		Page 35	57
1		1		57
1 2	A. I mean, I do not know every study they	1 2	migration.	57
2	A. I mean, I do not know every study they reviewed. I'm just providing I don't know	2	migration. I do not say that, you know, there was no	57
2 3	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed.	2 3	migration. I do not say that, you know, there was no they did not review the the epidemiologic	57
2 3 4	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by	2 3 4	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not	57
2 3 4 5	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by looking at the studies; right?	2 3 4 5	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not you know, they reviewed it. But I'm just	57
2 3 4 5 6	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by looking at the studies; right? A. There's not enough time. There's so	2 3 4 5 6	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not you know, they reviewed it. But I'm just pointing out the limitations of that.	57
2 3 4 5 6 7	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by looking at the studies; right? A. There's not enough time. There's so many studies in this and so many reports, so many	2 3 4 5 6 7	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not you know, they reviewed it. But I'm just pointing out the limitations of that. Q. Didn't CIR cite the very same studies	57
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2 3 4 5 6 7 8 9	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by looking at the studies; right? A. There's not enough time. There's so many studies in this and so many reports, so many assessments that Q. But you're criticizing the CIR.	2 3 4 5 6 7 8 9	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not you know, they reviewed it. But I'm just pointing out the limitations of that. Q. Didn't CIR cite the very same studies that were available as of 2013 that you cite in your report?	557
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2 3 4 5 6 7 8 9 10 11 12	A. I mean, I do not know every study they reviewed. I'm just providing I don't know every study that IARC reviewed. Q. Well, you could find that out by looking at the studies; right? A. There's not enough time. There's so many studies in this and so many reports, so many assessments that Q. But you're criticizing the CIR. A. Yeah. Q. And saying it limited its assessment. A. Sure.	2 3 4 5 6 7 8 9 10 11 12	migration. I do not say that, you know, there was no they did not review the the epidemiologic studies of talcum powder products. That's not you know, they reviewed it. But I'm just pointing out the limitations of that. Q. Didn't CIR cite the very same studies that were available as of 2013 that you cite in your report? A. Yes. MS. PARFITT: Objection. Form. A. Again, you know, I don't know if they	557
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Sonal Singh, M.D., M.P.H.

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	Page 358		Page 360
1	Q. Is a review that's funded by an entity	1	regulatory agency in late 2018. So things take
2	with an interest in the outcome of that review	2	time. And, you know, people, scientists take
3	inherently flawed?	3	time to come to conclusions.
4	A. No. It isn't. And this is just, you	4	Q. Okay. Let's go to Exhibit 22.
5	know, one of and, you know, it's a potential.	5	A. Which is?
6	It should be potential for funding biases. It	6	Q. That's the Berge I believe that's
7	doesn't mean that just because it was funded by	7	how it's pronounced report?
8	PCPC or CIR, it is, you know, biased.	8	MS. PARFITT: The Berge study?
9	But yes, I mean, so, for example, my report	9	MR. LOCKE: Yes, yes. I'm sorry.
10	and testimony, because it's funded by, you know,	10	BY MR. LOCKE:
11	should be examined for potential biases. Just	11	Q. So if you could turn to Page 9, can you
12	like, you know, CIR's report should be.	12	read the last sentence right before
13	Q. I want to ask you about the timing of	13	acknowledgments, beginning with the word
14	things, because sometimes you have referred to	14	"several." If you could read it out loud,
15	reports that were done a while ago. And in this	15	please.
16	case, you do that with CIR. You say, "The	16	A. "Several aspects of our own results,
17	findings of this panel have been superseded by	17	including the heterogeneity between case-control
18	several new epidemiologic studies," and so forth.	18	studies and the lack of dose-response with
19	The line goes on.	19	duration of and frequency of use, however, do not
20	Is it your opinion that well, let me ask	20	support a causal interpretation of the
21	this way: At what point in time can we say that	21	association."
22	the epidemiologic studies have sort of been	22	Q. And they're referring to the
23	completed so you could rely on that information?	23	association between talc and ovarian cancer?
24	MS. PARFITT: Objection. Form.	24	A. Yes. But other scientists, you know,
25	A. Yeah. I mean, so you rely on	25	such as Penninkilampi, have concluded otherwise,
	Page 359		Page 361
1	information from, what, 1982, Cramer one. But I	1	that there is, you know, suggestive of a causal
2	guess the question is I don't know, I'm not	2	association. Health Canada has concluded
3	trying to put questions in your mouth. But I	3	otherwise, that there's evidence of causal
4	don't I can't because I evaluated the	4	association.
5	causal question as of 2017 and didn't arrive at	5	Q. But here we are in 2018, there's a
6	an opinion until late 2018.	6	study that's published saying, "Does not support
7	I did not go year by year and, say, okay, in	7	a causal interpretation of the association
8	2005, when IARC looked at this, could we have	8	between talc and ovarian cancer"; correct?
9	concluded, possible, a problem? In 2010, when	9	A. Yes. I mean, you know
10	Langseth looked, or 2015.	10	Q. Let me just ask you: So scientists
	~		

So I did not segmentate it by time. And you're just asking, even by epidemiologic study. It doesn't work. You have to look at the whole body of evidence and come to a conclusion.

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Q. Isn't it true that, prior to the talc litigation, no scientist had published an article stating that talc causes ovarian cancer?

MS. PARFITT: Objection to form.

A. Yeah. I mean, you know, I think a lot of these articles have talked about -- and scientists don't necessarily publish statements about causation, you know.

You have seen that Health Canada has clearly stated that talc causes ovarian cancer. Yes, so, in fact, not even scientists, but now we have

disagree about this issue?

12 A. That's why we are here. If we all 13 agreed, we wouldn't be here.

Q. Okay. Let me move to a different topic.

16 MR. TISI: How much time do we have? 17 How much time do we have? That's okay. Just write it on a paper. 18

MR. LOCKE: We're getting close.

20 Q. Okay. Can we go to Page 62 of your 21 report.

22 Now, did we already do that? Maybe we 23 already did that. Sorry. I don't want to have to do things again. 24

A. Please don't. 25

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	Page 362		Page 364
1	Page 362	1	•
$\begin{array}{ c c }\hline 1\\ 2\end{array}$	THE VIDEOGRAPHER: 6:36. THE WITNESS: So we have 6 minutes, 36	1 2	don't know about the specifics, who are manufacturers and yeah. But I know the
3	seconds?	3	limitations of the survey.
4	Q. You have 24 minutes.	4	And even they acknowledge that the study
5	A. Oh, sorry.	5	could not prove that most or all talc-containing
6	Q. Sorry. We already did that one. So	6	cosmetic products currently marketed are likely
7	good there.	7	to be free. So even despite these whoever
8	Let's go to Page 15 of your report. We were	8	supplied them and whoever, you know, tested them.
9	talking just a moment ago about regulatory	9	MR. LOCKE: We're almost there. Then
10	entities and what they found.	10	I'll turn it back over.
11	In the middle of that paragraph or middle of	11	BY MR. LOCKE:
12	that page, there's a part that says, "Although	12	Q. Just one second. If you could go to
13	the FDA conducted a survey."	13	Page 59, please. Okay.
14	Do you see that?	14	On Page 59, you've got a Roman numeral X
15	A. Yes.	15	followed by a Roman Numeral III. Do you see
16	Q. And they found no asbestos fibers or	16	that? Talcum powder-induced inflammation. Am I
17	structures.	17	at the right place?
18	But then you, whatever you want to call it,	18	MS. PARFITT: I'm sorry, Tom.
19	you can call it criticism or deficiencies or	19	MR. TISI: 59 of the report?
20	disadvantages, you state, "The results were	20	MR. LOCKE: Yeah.
21 22	limited, only four out of nine talc suppliers	21 22	A. It's probably 58.Q. 58 of the report. Sorry.
23	submitted samples, and the number of products tested was low." Is that correct?	23	MS. PARFITT: No worries.
24	A. Well, that is a correct restatement of	24	Q. Okay. So you see that, Roman numeral
25	the facts. So it is not something that I made	25	X, Roman Numeral III?
23	the facts. So it is not something that I made	23	A, Koman Numerai III:
	Page 363		Page 365
1	up. I mean, it is true that four out of nine	1	A. Have we gone through this? I'll be
2	suppliers	2	
3	O I le I was one of the entities that	2	happy to go through it again.
_	Q. J&J was one of the entities that	3	Q. I want to ask you about something.
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1 Epithelial Inflammation in Ovaria 2 Now, you're citing that for "lor 3 understood to be an important me 4 fact, the first word in the title is "I 5 A. Yeah. And you can clarify 6 mean, this is about plausible mecl 7 Q. But it certainly doesn't say 8 been understood to be an importa 9 A. Well, I disagree. I mean, you 10 maybe that you can't cite all the 11 each statement you make. I wish 12 But inflammation, as I underst 13 important mechanism. And at lead 14 for a long time about ovarian cand 15 can opine in more detail. Is that of 16 most? Yeah, that particular citation 17 possible, you know, clarifier on the 18 MR. LOCKE: Okay. Let not the WITNESS: Thank you 19 I've got anything else here. That's 20 THE WITNESS: Thank you 21 MS. PARFITT: Let's take a 22 and see if we have any follow-up. 23 THE VIDEOGRAPHER: 0 25 5:13 p.m.	ng been chanism," but, in possible." y that. I nanisms. it's long nt mechanism. you know, articles for I did. and it, is an st has been known per. And others itation the pen has a nat. ne just see if all I have. u. Anyone else? a quick break	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	ERRATA PAGE LINE CHANGE REASON: REASON:	Page 368
1 (A recess was taken.) 2 THE VIDEOGRAPHER: I 3 5:26 p.m. 4 MS. PARFITT: Thank you 5 the plaintiffs have no questions. I 6 thank you for your time today. 7 We would ask that Dr. Sing 8 sign. 9 MR. ZELLERS: Thank you 10 THE WITNESS: Thank you 11 MR. KLATT: Wait. I've g 12 THE WITNESS: I want to 13 for a very professional, you know 14 this a couple of times. And if I ha 15 voice, it hasn't been anything pers 16 just been trying to explain someth 17 MR. ZELLERS: Thank you 18 THE VIDEOGRAPHER: A 19 record at 5:27 p.m. 10 (Deposition concluded at 5:27) 21 22 23 24 25	Dr. Singh, want to th read and a, Doctor. u. ot 30 seconds. thank everybody I've done ave raised my onal. It's ing. a, Doctor. And we're off the	4 5 6 7 8 9 10 11 12 13 14 15 16	ACKNOWLEDGMENT OF DEPONENT I,	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	CERTIFICATE COMMONWEALTH OF MASSACHUSETTS SUFFOLK, SS. I, Janet M. Sambataro, a Registered Merit Reporter and a Notary Public within and for the Commonwealth of Massachusetts do hereby certify: THAT SONAL SINGH, M.D., M.P.H., the witness whose testimony is hereinbefore set forth, was duly sworn by me and that such testimony is a true and accurate record of my stenotype notes taken in the foregoing matter, to the best of my knowledge, skill and ability; that before completion of the deposition review of the transcript was requested. I further certify that I am not related to any parties to this action by blood or marriage; and that I am in no way interested in the outcome of this matter. IN WITNESS WHEREOF, I have hereunto set my hand this 17th day of January, 2019. JANET M. SAMBATARO Notary Public	
23 24 25	My Commission Expires: July 16, 2021	